CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, April 12, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Apr.				
12	Cement	Glendive, Mont.	S.	3- 8
*12	Dam	Carlsbad, N. Mex.	P. S. & B. S.	3- 8
*12	Main canal, etc.	Glendive, Mont.	P. S. & B. S.	3- 8
14	Paving	Green Bay, Wis.	S. & B. S.	3- 8
14	Wharf	Charleston, S. C.	S.	3-22
*15	R.R. grading	Wisconsin Cen. Ry.	P. & S.	4- 5
*15	Water-works	New Orleans, La.	P. & S.	3- 8
*16	Main canal	Boise, Idaho	P. S. & B. S.	3- 8
16	Light & power plant,	New York.	P. S. & B. S.	2-22
22	Suction dredges	Panama	S. & B. S.	3-15
*19	Sewers	Pensacola, Fla.	P. S. & B. S.	3-22
*19	Paving, etc.	Hattiesburg, Miss.	S. & B. S.	3-29
*19	Irrigation ditches	Hazen, Nev.	P. S. & B. S.	3-15
26	Engines	Philadelphia, Pa.	S.	3-22
28	Building	Portsmouth, N. H.	S.	3-29
28	Building	Charleston, S. C.	S.	3-22
*28	Power plant	Garden City, Kan.	S.	4- 5
28	Filling & gdng.	Charleston, S. C.	S.	4-12
May				
*2	Telephone system	Salt Lake City, Utah	S. & B. S.	3-15
4	Wharf sheds & Rys.	Manila, P. I.	P. & S.	3- 1
8	Sewers	New Orleans, La.	P. & S.	3- 8
*10	Dam	Billings, Mont.	P. & S.	4- 5
Sept.				
15	Hotel bldg.	Manila, P. I.	S.	3-29

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

Bids close.	Work.	Place.	On file.	See issue.

LIGHT, HEAT AND POWER PLANTS.

Apr. 13. Street lights, Glen Head, N. Y. ..... Apr. 12
Apr. 14. Light plant, Grand Island, Neb. ..... Mar. 29
Apr. 14. Electric light system, Fort Russel, Wyo. .. Mar. 22
Apr. 14. Light system, Omaha, Neb. ..... Apr. 5
Apr. 16. Light & power plant, New York, N. Y. .. Feb. 22
Apr. 19. Light plant improvements, Palo Alto, Cal. Apr. 5
Apr. 23. Light plant, Grand Island, Neb. ..... Apr. 5
May 28. Elec. power plant, Garden City, Kan. .. Apr. 5
Advertised, Eng. News, Apr. 5 to May 10.
Apr. 30. Power plant for sale, Erindale, Ont. .... Mar. 22
Advertised, Eng. News, Mar. 22 to Apr. 5.
May 2. Lighting, Washington, D. C. ..... Apr. 12
July 5. Water power for sale, Kenora, Ont. .... Mar. 15
Advertised, Eng. News, Mar. 15.
No date. Gas pipe line, Cincinnati, O. ..... Feb. 15
No date. Power plant, Goodwater, Ala. ..... Mar. 1

BRIDGES.

Apr. 12. Bridges, Bigtimber, Mont. ..... Apr. 5
Apr. 16. Bridge, Minneapolis, Minn. ..... Apr. 5
Apr. 16. Bridges, Mt. Vernon, Ind. ..... Apr. 12
Apr. 16. Bridges, Warsaw, Ind. ..... Apr. 12
Apr. 18. Bridge, Hartford, Conn. ..... Apr. 12
Advertised, Eng. News, Apr. 12.
Apr. 20. Bridge, Reading, Pa. ..... Apr. 5
Advertised, Eng. News, Apr. 5.
Apr. 21. Bridge repairs, Memphis, Tenn. ..... Apr. 5
Apr. 23. Bridge, Amarillo, Tex. ..... Apr. 12
Apr. 24. Bridges, Fremont, Neb. ..... Apr. 12
Apr. 28. Bridges, Garden City, Kan. ..... Mar. 29
Advertised, Eng. News, Mar. 29 to Apr. 19.
Apr. 30. Iron draw-bridge, Belzona, Miss. ..... Mar. 15
Advertised, Eng. News, Mar. 15 to Apr. 19.
Apr. 30. Superstructure, etc., New York, N. Y. .. Apr. 12
Advertised, Eng. News, Apr. 12 to 26.
May 7. Bridge, Lawrence, Ind. ..... Apr. 12
May 19. Highway bridge, San Juan, P. R. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to 26.
June 30. Bridges, St. John, N. B. ..... Apr. 12

BUILDINGS.

Apr. 14. Lighting fixtures, Cheyenne, Wyo. ..... Mar. 15
Advertised, Eng. News, Mar. 15 to 29, Apr. 12
Apr. 14. Hospital, storehouse, Delaware City, Del. Mar. 22
Apr. 14. School, Greenwich, N. Y. ..... Apr. 5
Apr. 16. Shelters, Delaware City, Del. ..... Mar. 22
Advertised, Eng. News, Mar. 22 to Apr. 5.
Apr. 16. School, Cleveland, O. ..... Mar. 29
Apr. 16. School, Cleveland, O. ..... Apr. 12
Apr. 17. Building, Tallahassee, Fla. ..... Mar. 29
Apr. 20. Asylum, Bathgate, N. Dak. ..... Apr. 5
Apr. 21. Mech equipment, Washington, D. C. .... Mar. 22
Advertised, Eng. News, Mar. 22 to Apr. 12.
Apr. 23. Church, Bowling Green, O. ..... Apr. 5
Apr. 25. Stairways, etc., Washington, D. C. .... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 25. Iron stairways, etc., schools, Wash., D. C. Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 28. Building, Charleston, S. C. ..... Mar. 22
Apr. 28. Building, Portsmouth, N. H. ..... Mar. 29
Apr. 30. Hospital, Sheridan, Wyo. ..... Apr. 12
Apr. 30. Plumbing, House Office Building, Washington, D. C. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to 26.
Apr. 30. Plumbing, Washington, D. C. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to 26.
May 1. Barracks, Cheyenne, Wyo. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to 26.
May 1. Elevator, fixtures, etc., Wash., D. C. .... Apr. 5
Advertised, Eng. News, Apr. 5 to 26.
May 4. Hospital, Prescott, Ariz. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to 26.
May 3. Hospital, Boston, Mass. ..... Apr. 12
May 11. Post-office and court-house, Los Angeles, Cal. ..... Apr. 12
Sept. 15. Hotel, Manila, P. I. ..... Mar. 29

WATER SUPPLY AND IRRIGATION.

Apr. 13. Water extension, Ft. Meyer, Va. ..... Mar. 22
Apr. 14. Sewer & water systems, Honolulu, H. T. Mar. 15
Apr. 14. Water mains, New York, N. Y. ..... Apr. 5
Apr. 16. Filter extension, Columbus, Ind. ..... Mar. 15
Apr. 16. Artesian well, Galesburg, Ill. ..... Mar. 15
Advertised, Eng. News, Mar. 15.
Apr. 16. Infiltration gallery, Columbus, Ind. ..... Mar. 22
Advertised, Eng. News, Mar. 22.
Apr. 16. Water tank, Athens, Ala. ..... Mar. 29
Apr. 16. Water-works, Albany, N. Y. ..... Apr. 12
Apr. 17. Water pipe line, Bayonne, N. J. ..... Apr. 5
Advertised, Eng. News, April 5 and 12.
Apr. 18. Water pipe, Asbury Park, N. J. ..... Mar. 29
Advertised, Eng. News, Mar. 29 and Apr. 5.
Apr. 18. Removing stand-pipe, Donaldsonville, La. Apr. 5
Apr. 18. Water-works, La Junta, Colo. ..... Apr. 12
Apr. 19. Sale of water-works boilers, Buffalo, N. Y. Apr. 12
Apr. 20. Water pipe, Charleston, N. H. ..... Apr. 12
Apr. 20. Deep well, Parker, Colo. ..... Apr. 12
Apr. 24. Water system, Roff, Ind. T. ..... Mar. 29
Advertised, Eng. News, Mar. 29 to Apr. 12.
Apr. 23. Water-works, East Orange, N. J. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 24. Reservoir & pipes, Port Townsend, Wash. Apr. 12
Apr. 24. Reservoir, Fort Flager, Wash. ..... Apr. 12
Apr. 24. Water-works, Oklahoma City, Okla. ..... Apr. 12
Apr. 25. Water-works, Albia, Ia. ..... Apr. 12
Apr. 25. Cypress cisterns, Egmont, Fla. ..... Apr. 12
Apr. 26. Pumping engine, Bowling Green, Ky. .. Apr. 12
Apr. 26. Reservoir, Indiana, Pa. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 26. Engines, etc., Philadelphia, Pa. ..... Mar. 22
Advertised, Eng. News, Mar. 22 and 29 and Apr. 19.
Apr. 26. Pumping engine, Bowling Green, Ky. .. Apr. 5
Advertised, Eng. News, Apr. 5 to 19.
Apr. 27. Pumps, Cincinnati, O. ..... Apr. 5
Apr. 28. Water-works, Asbury Park, N. J. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 28. Furnishing 200 tons of 12-in. c.-i. water pipe, Washington, D. C. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 30. Water-works, Buena Vista, Ga. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
May 1. Water-works improvement, Cincinnati, O. Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
May 1. Well, Waterloo, Ia. ..... Apr. 5
May 1. Drilling deep well, Waterloo, Ia. ..... Mar. 29
Advertised, Eng. News, Mar. 29 and Apr. 5.
May 1. Water pipe, Toronto, Ont. ..... Mar. 29
Advertised, Eng. News, Mar. 29 to Apr. 12.
May 15. Water pipe, New Orleans, La. ..... Apr. 5
No date. Dam, Marietta, Ga. ..... Mar. 29
No date. Water-works franchise, Cloquet, Minn. .. Mar. 29
No date. Irrigation ditch, Harlingen, Tex. ..... Mar. 29

SEWERAGE.

Apr. 12. Sewer, Ft. Wayne, Ind. ..... Apr. 5
Apr. 12. Sewer system, Milledgeville, Ga. ..... Apr. 5
Apr. 13. Sewer, Grand Rapids, Mich. ..... Apr. 12
Apr. 16. Sewers, Des Moines, Ia. ..... Apr. 5
Apr. 16. Sewers, Oshkosh, Wis. ..... Mar. 29
Apr. 17. Sewer, Findlay, O. ..... Apr. 12
Apr. 18. Sewers, Buffalo, N. Y. ..... Apr. 12
Apr. 18. Sewer, Youngstown, O. ..... Apr. 12
Apr. 19. Sewers, Pensacola, Fla. ..... Mar. 8
Apr. 20. Sewers, Olean, N. Y. ..... Apr. 12
Apr. 23. Sewers, Bronxville, N. Y. ..... Apr. 12
Advertised, Eng. News, Apr. 12.
Apr. 27. Sewers, McCook, Neb. ..... Apr. 12
Advertised, Eng. News, Apr. 12.
May 1. Sewers, Springfield, Mo. ..... Apr. 12
May 2. Sewers, Milledgeville, Ga. ..... Apr. 12
May 8. Sewers, New Orleans, La. ..... Mar. 8
Advertised Eng. News, Mar. 8 to May 3.
May 12. Sewers, Pittsburg, Pa. ..... Apr. 12
June 26. Sewer, Vacaville, Cal. ..... Apr. 5

STREETS AND ROADS.

Apr. 12. Constructing road, Stroudsburg, Pa. .... Apr. 5
Apr. 12. Macadamizing, Union City, Ind. ..... Apr. 5
Apr. 12. Cement, Brandon, Man. ..... Mar. 22
Apr. 14. Paving, Green Bay, Wis. ..... Mar. 22
Advertised, Eng. News, Mar. 22 and 29.
Apr. 14. Road work, Steubenville, O. ..... Mar. 29
Apr. 14. Paving and sidewalks, Roanoke, Va. ..... Mar. 29
Apr. 15. Sidewalks, North Branch, Mich. ..... Mar. 29
Apr. 16. Stone roads, Rensselaer, Ind. ..... Mar. 29
Apr. 16. Sidewalks, Bismark, N. Dak. ..... Mar. 22
Apr. 16. Road roller, Melrose, Mass. ..... Apr. 5
Advertised, Eng. News, Apr. 5.
Apr. 16. Paving and curbing, Des Moines, Ia. ..... Apr. 5
Apr. 16. Paving, Delaware, O. ..... Apr. 5
Apr. 16. Paving, Bradford, Pa. ..... Apr. 5
Advertised, Eng. News, Apr. 5 and 12.
Apr. 16. Grading, etc., Albany, N. Y. ..... Apr. 12
Apr. 17. Paving, La Crosse, Wis. ..... Mar. 22
Apr. 17. Paving, Bayonne, N. J. ..... Apr. 5
Apr. 17. Paving, Bayonne, N. J. ..... Apr. 5
Advertised, Eng. News, Apr. 5 and 12.
Apr. 18. Paving, Boston, Mass. ..... Apr. 12
Apr. 18. Furnishing paving cement, New York. Apr. 12
Apr. 18. Repairing, etc., asphalt pvmts, New York. Apr. 12
Apr. 19. Paving, etc., Brazil, Ind. ..... Apr. 12
Apr. 19. Brick paving, Paris, Tex. ..... Mar. 22
Advertised, Eng. News, Mar. 22.
Apr. 20. Paving and grading, Keyser, W. Va. .. Apr. 5
Apr. 21. Macadam paving, Oshkosh, Wis. ..... Apr. 12
Apr. 23. Grading, etc., Quincy, Mass. ..... Apr. 12
Apr. 23. Grading, etc., Quincy, Mass. ..... Apr. 12
Apr. 23. Paving, Bronxville, N. Y. ..... Apr. 12
Advertised, Eng. News, Apr. 12.
Apr. 24. Paving, Champaign, Ill. ..... Apr. 12
Advertised, Eng. News, Apr. 12.
Apr. 24. Brick paving, Holly Beach, N. J. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 25. Paving, West Tampa, Fla. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to 19.
Apr. 26. Roads, Rensselaer, Ind. ..... Apr. 12
Apr. 27. Sidewlk & curbing, Le Seur Center, Minn. Apr. 12
Apr. 28. Grading, etc., Charlestown, S. C. ..... Apr. 12
Apr. 30. Repaving, Great Falls, Mont. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
May 1. Paving, Evansville, Ind. ..... Apr. 12
May 1. Sidewalks, St. Paul, Minn. ..... Apr. 12
May 1. Gravel streets, Springfield, Mo. ..... Apr. 12
May 7. Paving & curbing, Portsmouth, Va. .... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
May 8. Road construction, Boston, Mass. ..... Apr. 12
May 8. Macadamized roads, Vincennes, Ind. .... Apr. 12
May 8. Road, Brazil, Ind. ..... Apr. 12
No date. Sidewalks, Oberlin, Kan. ..... Mar. 29

MISCELLANEOUS CONTRACTS.

Apr. 12. Canal, Glendive, Mont. ..... Mar. 15
Advertised, Eng. News, Mar. 15 to Apr. 5.
Apr. 12. Cement, Glendive, Mont. ..... Mar. 8
Apr. 12. Main canal, Glendive, Mont. ..... Mar. 8
Advertised, Eng. News, Mar. 8 to 29.
Apr. 12. Dam, Carlsbad, N. Mex. ..... Mar. 8
Advertised, Eng. News, Mar. 8.
Apr. 14. Wharf, Charleston, S. C. ..... Mar. 22
Apr. 14. Dredging, Ottawa, Ont. ..... Mar. 29
Apr. 14. Dredging, Port Arthur, Ont. ..... Mar. 29
Apr. 15. R. R. equipment, E. Carolina Ry. ..... Mar. 22
Apr. 15. Railroad grading, Wisconsin Central R. R. Apr. 5
Advertised, Eng. News, Apr. 5 to 26.
Apr. 16. Dredging, Boston, Mass. ..... Mar. 22
Advertised, Eng. News, Mar. 22 to Apr. 12.
Apr. 16. Main canal, Boise, Idaho ..... Mar. 8
Advertised, Eng. News, Mar. 8 to 29.
Apr. 17. Incinerator, New York, N. Y. ..... Apr. 12
Apr. 18. Ry. grading, bridging, El Dorado & Wesson Ry. ..... Apr. 12
Apr. 19. Irrigation ditches, Hazen, Nev. ..... Mar. 15
Advertised, Eng. News, Mar. 15 to Apr. 5.
Apr. 20. Ditch, Elgin, Ill. ..... Apr. 5
Apr. 20. Sea wall, Coronado, Cal. ..... Apr. 5
Apr. 20. Sprinkler, Holyoke, Mass. ..... Apr. 12
Advertised, Eng. News, Apr. 12.
Apr. 23. Dredging, Jacksonville, Fla. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to 19.
Apr. 23. Suction dredges, Panama ..... Mar. 15
Apr. 24. Crematory, Oswego, N. Y. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 24. Naval supplies, Washington, D. C. ..... Apr. 12
Apr. 25. Bulkhead, Baltimore, Md. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 25. Railroad work, Kanawha & W. Va. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to 26.
Apr. 25. Rock removal, New York, N. Y. ..... Mar. 29
Advertised, Eng. News, Mar. 29 to Apr. 19.
Apr. 25. Ry. concrete masry, etc., Baltimore, Md. Mar. 29
Advertised, Eng. News, Mar. 29 to Apr. 12.
Apr. 27. Tugboat supplies, Panama ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 28. Cement, Wheeling, W. Va. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to 26.
Apr. 28. Drainage, Bergenfield, N. J. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
Apr. 28. Filling and grading, Charleston, S. C. .... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
May 1. Ditch, Findlay, O. ..... Apr. 12
May 1. R. R. grading, bridging, etc., Kanawha & West Va. R. R. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to May 3.
May 1. Dredging, Butler, Mo. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to 26.
May 1. Steel dock, Chile (Foreign) ..... Nov. 9
May 2. Telephone system, Salt Lake City, Utah. Mar. 15
Advertised, Eng. News, Mar. 15 to Apr. 5.
May 2. Revetments, Chicago, Ill. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to 26.
May 2. Steel tug, Duluth, Minn. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to 26.
May 4. Wharf sheds & Rys., Manila, P. I. ..... Mar. 1
Advertised, Eng. News, Mar. 15 to 29.
May 7. Iron fence, Prescott, Ariz. ..... Apr. 12
Advertised, Eng. News, Apr. 12 and 19.
May 8. Hire of dredging plants, New York, N. Y. Apr. 12
Advertised, Eng. News, Apr. 12 to May 3.
May 8. Dredging, New York, N. Y. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to May 3.
May 10. Dikes, New York, N. Y. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to May 3.
May 10. Dam, Billings, Mont. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to 26.
May 24. Canal, Billings, Mont. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to May 10.
May 28. Lock and dam, Dallas, Tex. ..... Apr. 12
Advertised, Eng. News, Apr. 12 & 19 and May 17 & 24.
June 2. Two battleships, Washington, D. C. ..... Apr. 5
June 6. Dredging plant, Cuba ..... Apr. 5
Advertised, Eng. News, Apr. 5 to May 31.
No date. Electric railway, La Salle, Ill. ..... Apr. 12
No date. Brick, terra cotta, Lowell, Mass. ..... Mar. 1
Advertised, Eng. News, Mar. 1.
No date. Cement, Chicago, Ill. ..... Mar. 15
Advertised, Eng. News, Mar. 15.

CIVIL SERVICE EXAMINATIONS.

Apr. 14. Arch. Draftsman, Albany, N. Y. ..... Mar. 29
Apr. 14. Engineering Examiner, Albany, N. Y. .. Mar. 29
Apr. 14. Boiler Inspector, Albany, N. Y. ..... Mar. 29
Apr. 14. Rodman, Albany, N. Y. ..... Mar. 29
Apr. 14. Gas & Elec. Inspector, Albany, N. Y. .... Mar. 29
Apr. 18. Engineer, Carpenter, Winnebago, Neb. .. Mar. 29
Apr. 18. Assayer, Chicago, Ill. ..... Mar. 22
Apr. 18. Scientific Asst., Washington, D. C. ..... Mar. 1
Apr. 18. Arch. Draftsman, New York, N. Y. .... Mar. 15
Apr. 24. Topograph Dftsman, New York, N. Y. .. Mar. 29
Advertised, Eng. News, Mar. 29 and Apr. 5.
Apr. 25. Arch. Draftsman, New York, N. Y. .... Mar. 15
Apr. 25. Mint Apprentice, Washington, D. C. .... Apr. 5
May 2. Engr. Draftsman, Wheeling, W. Va. .... Apr. 5
May 2. Elec. Assistant, Washington, D. C. ..... Apr. 5
May 3. Asst. Elec. Engr., California ..... Apr. 5
No date. Master Electricians, Ft. Totten, N. Y. .... Mar. 15
Advertised, Eng. News, Mar. 15 and 22.

PROPOSED WORK

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, **WAINWRIGHT RANDALL**
Editor Construction News

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALAFIA, MANATEE & GULF COAST.—We are officially advised by L. M. Fouts, Gen. Mgr., 316 Duval Building, Jacksonville, Fla., that this company has under construction 60 miles of road from Boca Grande Pass, on Charlotte Harbor, to Brownville, Fla. A bridge two miles long will be built across Gasparilla Sound. Plans for two steel and concrete draw-bridges, one at Gasparilla Sound and one at the Myakka River, are being prepared. The company will purchase immediately five new locomotives, 100 box and ventilator cars and passenger equipment. The first cargo of 70-lb. rails has been received and track is being laid north from Boca Grande. Extensive piers and docks are under construction at Boca Grande.

CAIRO & THEBES.—J. L. Armstrong, Ch. Engr., 708 Commercial Ave., Cairo, Ill., advises us that location surveys are now in progress and that capital is secured. Contracts will be let as soon as the line is located, which will be not later than June 1. The line will extend from Cairo to Thebes, Ill., 25 miles, and will be constructed of 80-lb. steel rails and in every respect a first-class line. The terminals, in Cairo will be located in the heart of the city and will comprise a modern and up-to-date passenger station and freight station, also roundhouse, coaling facilities and the necessary yards for the transaction of the prospective heavy business in this city. E. A. Smith, Cairo, is Pres.

CORTLAND & AUBURN.—We are officially informed that a survey has been begun for a railroad from Cortland, N. Y., which will run up through the lower part of the Skaneateles Lake Valley and reach Auburn, N. Y. It is expected that actual construction will be commenced in a few months. Walter Loring Webb, M. Am. Soc., C. E., Land Title Bldg., Philadelphia, Pa., is Ch. Engr.

EL DORADO & WESSON.—James Harrington, Ch. Engr., El Dorado, Ark., informs us that this railway has been located and the right-of-way purchased. Contracts for grading and bridging will be let on April 18. It is planned to have the road in operation by Oct. 1.

KANAWHA & WEST VIRGINIA. — Bids are asked until noon, May 1, by N. C. Van Natta, Ch. Engr., Charleston, W. Va., for grading, tunneling, bridging and tracklaying on 25-mile extension of the K. & W. Va. R. R. (Advertised, Engineering News.)

MOREHEAD & NORTH FORK.—We are officially advised that bids were received by William M. McCormick, Pres., 218 Girard Bldg., Philadelphia, on March 30, for building a 1,300-ft. tunnel on line of this railway in Rowan County, Ky. Also for grading of line about 1½ miles each way from the tunnel. Contract was awarded to the RINEHART & DENNIS CO., Colorado Bldg., Washington, D. C. G. W. Hess is Engr., Morehead, Ky. (Advertised in Engineering News on March 15.)

MIDDLE CAROLINA & WESTERN.—This company, which was recently chartered to build a railroad from Saluda, S. C., to Greenwood, has been organized with the following officers: B. W. Crouch, Pres.; Alvin Etheredge, Vice-Pres.; B. P. Miller, Gen. Mgr. and G. C. Wheeler, Treas., at Saluda.

SALINA, TIPTON & NORTHERN.—This company has been chartered in Kansas to construct a railway from Salina, Kan., to the Nebraska state line. Capital, $2,500,000. The incorporators are M. J. Arnoldy, Stephen Schandler and A. Buech, of Tipton, Kan.; and G. A. Davidson, C. W. Webster, D. W. Pike and J. W. Crowley, of Kansas City, Mo.

SOUTHERN RY.—Contract has been awarded to W. J. OLIVER, of Knoxville, Tenn., for additional double-tracking. The tracks will extend 25 miles south of Lynchburg, 40 miles between Knoxville and Morristown, and 15 miles between Chattanooga and Oeltewah, through Missionary Ridge. Mr. Oliver has just begun a stretch of about 40 miles for the Southern between Greensboro and Spencer, S. C., and has almost completed the double-tracking between Austell and Atlanta. These improvements are to be paid for from the proceeds of the recent bond issue of $20,000,000. Mr. Oliver is also constructing a tunnel through Lookout Mountain and a dam across the Tenessee River at Chattanooga.

SPARTANBURG & GLENN SPRINGS SOUTHERN.—We are officially advised that this railway "will be built at an early date. The company was commissioned by the Secretary of State, South Carolina, on March 31. The length of line will be about 100 miles, traversing the several townships of the counties of Spartanburg, Union, Newberry, Saluda, Edgefield, Laurens and Aiken. The preliminary survey will be made soon and the line definitely agreed upon. The motive power will be electricity or steam, perhaps both, or any other power that may be determined upon later. The capital named in commission is $100,000, with the privilege of increasing to $1,000,000. The line will develop a section of country that is not now enjoying transportation facilities. Connection will be made with the three systems of railroad in this state: the Southern Ry., Atlantic Coast Line and Seaboard Air Line. It will be the most direct line to the favorite summer and winter resorts and also the shortest haul for coal and other raw material to the manufacturing plants along this line. The people along the proposed line are anxious to cooperate with us towards its construction, making cash donations as well as contributing labor, rights-of-way, cross ties, etc. It is not a road built for speculative purposes, but simply to supply the demands for transportation facilities and it should be a dividend payer from the beginning."

TENNESSEE RY.—RODES & McDOWELL of Knoxville, Tenn., have been awarded contract for building 20-mile section of this railway up New River. W. O. Dyer is Ch. Engr., at Huntsville, Tenn.

WISCONSIN CENTRAL.—Plans and specifications for work advertised in Engineering News are on file at offices of Engineering News in New York and Chicago. Bids are asked until April 15 for grading work.

RAILROAD CONSTRUCTION IN TEXAS.

AUSTIN, TEXAS, April 5.—Official.—There is more railroad building in progress and in prospect in Texas at this time than at any time in the history of the state. In addition to important extensions which several of the large systems are making a number of independent lines are being built. Of the 12,000 miles of railroad in Texas more than 9,000 miles are in the eastern half of the state. During the past few years the agricultural development has broadened until it now extends far into the western portion of the state encroaching upon what was formerly considered to be fit only for cattle grazing purposes. Thousands of new settlers have opened up farms in western Texas and the big ranches are rapidly being divided up. All this development makes traffic for railroads and there is now a rivalry among the different existing railway systems to extend their lines in order to obtain a share of the new business that awaits them. Eastern Texas has kept progress with the general march of development and the need of additional railroads in that portion of the state is being filled by the building of a number of new lines.

The construction of the Kansas City, Mexico & Orient through the western part of the state is making good progress. It probably will be two years before this line is completed through Texas, although the first section out of Sweetwater probably will be placed in operation soon. The grade between the Red River on the north and San Angelo on the south, a distance of about 250 miles, will soon be completed. Track-laying is in progress on this stretch of road. The distance from San Angelo to Presidio del Norte, where the road will cross the Rio Grande, is about 250 miles. A branch line of the Kansas City, Mexico & Orient is to be built from San Angelo to a connection with the Mexican International at Monclova, Mexico, crossing the Rio Grande at Del Rio. The length of this branch line in Texas will be about 200 miles, making a total of about 700 miles of road that the Kansas City, Mexico & Orient will have in Texas.

The Pecos Valley division of the Atchison, Topeka & Santa Fe is preparing to build a branch line from Texico on the border of Texas and New Mexico to Brownwood, Texas, where it will connect with the Gulf division. The new line will be 350 miles long. Another branch line of the Pecos Valley division is now being built from Canyon, Texas, to Lubbock, a distance of 125 miles. The Jasper & Eastern, another Atchison, Topeka & Santa Fe project is extending its line east from Kirbyville, Texas, to Alexandria, La. The Beaumont & Northern, also an Atchison, Topeka & Santa Fe property, is being extended north from Center, Texas, towards Shreveport, La.

The Texas Central which now runs from Waco, to Stamford, has let the contract for the construction of an extension of its line from Stamford west to the New Mexico border, a distance of 350 miles. Two important branch lines of this road are to be built, one to run to the coal fields at Strawn and the other to Sweetwater, where it will connect with the Texas & Pacific and the Kansas City, Mexico & Orient.

The Missouri, Kansas & Texas will soon amend its charter to provide for extending its Wichita Falls line west into the Panhandle for a distance of about 200 miles and to extend its isolated road, which now runs from Colmesneil to Trinity, from the latter place to Granger, where it will connect with its main line. The distance is about 125 miles.

The Trinity & Brazos Valley division of the Colorado & Southern is being extended south from Mexia to Houston, a distance of about 150 miles. Branch lines of this road are also being built to Dallas and to Fort Worth. The Wichita Valley division of the Colorado & Southern is being extended south from Seymour to Brownwood, a distance of about 135 miles. It will connect with the Fort Worth & Rio Grande division of the 'Frisco, and with the Gulf division of the Atchison, Topeka & Santa Fe at Brownwood.

The Orange & Northwestern is being extended north from Buna. The first 100 miles of this extension is under construction. It is said that the ultimate objective point of the road is Shreveport, La.

The Beaumont, Sour Lake & Western, which is to become a link in the Texas-New Orleans line of the Colorado & Southern, is being extended west from Sour Lake to Spring, where it will connect with the Trinity & Brazos Valley division which is now being built. The distance is about 75 miles.

The St. Louis, Brownsville & Mexico which recently completed its extension from Sinton to Algoa, a distance of about 175 miles, will soon commence the construction of a branch line from Sinton to San Antonio, a distance of 125 miles.

The Fort Worth & Rio Grande division of the 'Frisco is to be extended south from Brady to San Antonio, a distance of about 135 miles. The construction of this proposed extension will be started in a short time, according to the statements of high officials of the 'Frisco. A survey is being made for a proposed extension of the Quanah division of the 'Frisco from Quanah to El Paso, a distance of about 400 miles. The route of this proposed new line is through the remote western part of Texas, and the southeastern corner of New Mexico. It would afford a new and direct route between the El Paso gateway to Mexico and California and St. Louis, Kansas City and intermediate points. It is understood that the building of this extension will not be commenced in the immediate future.

The San Antonio & Gulf division of the Southern Pacific is being extended from Stockdale to Cuero, a distance of 60 miles. The grade for this extension is practically completed, and the road will be completed and placed in operation about the middle of June.

The Colorado, Texas & Mexico Railroad Co. which is to build a north and south line through the western part of the state has some of its roadbed graded, and it is stated that the construction work is to be pushed forward rapidly from now on.

Considerable progress has been made in the construction of the extension of the Texas & Southern south from its present southern terminus. It is planned to build this road to Sabine Pass, a distance of more than 200 miles.

The Houston & Texas Central is building a branch line south from Mexia. This new line will be more than 100 miles long when completed, according to present plans.

It is planned to extend the Waterford, Mineral Wells & Northwestern division of the Texas & Pacific west from Mineral Wells to the extreme northwestern boundary of Texas, a distance of about 350 miles. It is stated that the survey for this proposed extension is now in progress.

The Chicago, Rock Island & Pacific made a survey a few years ago for an extension of its line west from Graham to Haskell, a distance of about 75 miles. It is announced that this extension will be built during the present year.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capitol letters.

SYRACUSE, N. Y.—John E. Duffy, Supt., announces that the Syracuse Rapid Transit Co. will spend $110,000 for tracks; $12,000 for the Niagara power line from the city limits to the new transforming station (which the company is building and equipping at a cost of $60,000); $20,000 for paving and $50,000 for cars. The summer work is about to be begun.

PHILADELPHIA, PA.—Application for a charter was made by the Philadelphia Elevated & Subway Co. in Harrisburg on April 5, under which the company proposes to build an elevated and subway passenger railway between 63d St. and the Delaware River over the same route practically as was embraced in the recently abandoned project of the Philadelphia & Western Railway Co. The line would be about six miles long. Capital stock, 300,000. The directors named are Edward T. Davis, Jr., Philadelphia; Felix Isman, Philadelphia; Alfred J. Dupont, Wilmington, Del.; Layton Martin Schoch, Philadelphia, Wayne Purviance, Chestnut Hill, Philadelphia. Felix Isman is Pres.

BALTIMORE, MD.—We are officially advised that the FIDELITY CONSTRUCTION CO., of Detroit, Mich., which has contract for laying 33¼ miles of double-track for the Washington, Baltimore & Annapolis Electric Ry. Co., as noted in our issue of March 29, has sublet contract for excavation to the UNIVERSAL CONSTRUCTION CO., Allentown, Pa.

WASHINGTON, D. C.—The Washington "Post" states that the District Commissioners, in reporting upon a bill to authorize the Washington & Marlboro Electric Railway Co., of Maryland, to extend its lines into the district have called attention to the fact that the route proposed in the bill covers partly that proposed by the bill to incorporate the East Washington Heights Traction Co. They stated that favorable recommendation would be given only to that company which agrees to pay $10,000 for widening one of the streets along the line of the road. The construction of the railroad is dependent upon the filing of Branch Ave., as that roadway is but 26 ft. wide, and it will be necessary to widen it to about 50 ft. before a railroad can be laid. The estimated cost of widening the avenue is $10,000, and this cost, the Commissioners say, should be borne by any railroad company proposing to use the route. The Commissioners believe that a railroad is needed in this section, and that the franchise is regarded as a valuable one is evidenced by the fact that two railroad corporations are endeavoring to secure a franchise. The Commissioners have no preference, provided a railroad is constructed, but they believe that no franchise should be granted to any company which is not willing to deposit the amount necessary to widen Branch Ave.

FRONT ROYAL, VA.—Hugh E. Naylor, Secy. of the Board of Trade, has stated that the promoters of a proposed electric railway from Front Royal-Riverton through Rappahannock, Madison and Green Counties desire to get in touch with capitalists who would be interested in such a plan. Rappahannock County has subscribed $50,000 and Green County $15,000 for the road, while Madison County is expected to subscribe $25,000. S. F. Rhodes is Pres. of the Board of Trade.

HIGH POINT, N. C.—A charter has been issued to the North Carolina Electric Co., with $1,000,000 authorized capital, for the purpose of constructing interurban electric railways within a radius of 50 miles of High Point. There are three incorporators, Dee Allen and Daniel G. Griswald, of Condor, and Melvin C. Hard, of Philadelphia, Pa.

MONTGOMERY, ALA.—Contingent upon the approval of the street railway ordinance by the Mayor, the Montgomery Traction Co. will expend nearly $100,000 in improvements on the consolidated lines, it is said. W. H. Ragland, Gen. Mgr.

BARBERTON, O.—H. S. Davidson, Secy. of the Barberton, Wadsworth & Western Traction Co., Barberton, informs us that right-of-way is nearly secur[illegible] pany's line. Gasoline will [illegible] for the motive power. The [illegible] tend from Akron, on the e[illegible] O., on the west. Prelimi[illegible] been made and capital parti[illegible] tracts probably will be [illegible] month's time.

CINCINNATI, O.—We are [illegible] that the Cincinnati, Newp[illegible] Light & Traction Co. has [illegible] for new equipment, noted [illegible] March 29th, as follows: [illegible] KW.), GENERAL ELECTR[illegible] and superheaters, STERL[illegible] DATED BOILER CO., 111 [illegible] York; switchboard, GENER[illegible] CO.; stokers, JONES UNDE[illegible] ER CO.; economizers, B. F. [illegible] CO., Hyde Park, Mass. C. [illegible] Ch. Engr., Covington, Ky.

FLINT, MICH.—We are [illegible] that surveys are practicall[illegible] the Detroit, Flint River & [illegible] Ry. Co.'s line from Flint [illegible] Valley. Capital is secured [illegible] not be let before June 1st. [illegible] Dryden Block, Flint, is Pr[illegible] week.

LA SALLE, ILL.—Bids a[illegible] Illinois Valley Ry. Co., at [illegible] Office, La Salle, for the co[illegible] miles of railroad, including [illegible] yds. of earth work and 1,5[illegible] crete. L. A. Nichols, Consul[illegible] vertised, Engineering News.)

CHICAGO, ILL.—At the el[illegible] on April 3, municipal owners[illegible] railways was the main issue [illegible] of that vote is that the city [illegible] to acquire and control the rai[illegible] not operate them. But the v[illegible] claring that the city should [illegible] the railways, declared that, a[illegible] public policy, it would be desi[illegible] do so. Three propositions w[illegible] to the voters, the first of which was: "Shall the city of Chicago proceed to operate street railways?" This proposition r[illegible] cent. of the total vote cast in [illegible] come effective. The total vote was 231,1[illegible] and there were only 120,91[illegible] votes. As a three-fifths vote is necessary, the proposition failed of indorsement by 17,792 votes. The second proposition involved the approval of an ordinance previously passed by the city council providing for the issue of street railway certificates not to exceed $75,000,000, for the purchase, ownership and maintenance of the street railways. This was carried by about 3,[illegible] votes. The third proposition was: "Shall the city council proceed without delay to secure the municipal ownership and operation of the street railways under the Mueller law, instead of granting franchises to private companies?" This proposition was carried by about 3,600 votes.

KENOSHA, WIS.—A. E. Smith, of Hartland, Wis., is interested in project to build the Chicago, Kenosha & Milwaukee Electric Ry. Co., from Chicago to Kenosha, Green Bay and Cincinnati, O.

DES MOINES, IA.—The Des Moines, Winterset & Creston Interurban Ry. Co. has been granted franchises recently in Creston and Macksburg.

CLEBURNE, TEX.—We are informed by D. Alexander Kelly, Pres. and Gen. Mgr. of the Enterprise Lumber & Shingle Co., Waco, Tex., that he contemplates building a railroad from Cleburne, via Glenrose, Stephensville, Dublin, Hamilton and Gatesville, to Temple, Belton or Georgetown, with the intention to ultimately extend to Houston and the Gulf of Mexico, on the south, and to Fort Worth, on the north.

DENVER, COLO.—The Denver City Tramway Co. has applied for a new franchise to build extensions to its line. The company plans to build new shops near Argo at cost of $200,000. John A. Beeler is Gen. Mgr. Company now operates over 150 miles of line.

CANON CITY, COLO.—The contract has been awarded to WILLIAM WHITE, of Florence, Colo., for grading the line of the Canon City, Florence & Royal Gorge Interurban Electric R. R. Co., from at point three miles west of this city to the top of the Royal Gorge, at $24,000. The work is to be completed by July 1. About 1½ miles of the roadbed is finished and the cost of the work already done is included in the contract given to Mr. White. The electric line from this city will ascend to the top of the gorge, about eleven miles by an easy gradient. The rails will be of heavy steel and the track will be ballasted with disintegrated granite, of which large quantities may be had along the right-of-way. A suspension bridge will be built across a crevasse 150 ft. in width, almost directly over the famous Rio Grande hanging bridge, more than 2,300 ft. above the Arkansas River. This bridge will be the highest in the world, it is said. The present highest bridge is stated to be the one recently completed over the Zambesi River on the line of the Cape-to-Cairo road at Victoria Falls, in Rhodesia, South Africa, which is over 450 ft. above the river.

EVERETT, WASH.—Charles A. Barron, Gen. Supt. of the Snohomish Valley Ry., Snohomish, Wash., writes us, under date of March 25, that the line will be 71 miles in length and will extend from Everett to Snohomish, Monroe, Cherry Valley, Novelty, Tait, Falls City, Issaquah and Renton. Surveys are completed and the right-of-way is partly secured. More than half of the right-of-way is cleared. Bids for construction will be received and contract let in about 90 days' time. "No contracts have been awarded, although so reported by the press." Bonds are on the market now. The Chicago Title & Trust Co., Chicago, is acting as trustee. G. M. Cochran is Pres.; E. Colburn, Vice-Pres.; E. L. Colburn, Secy.; [illegible] Ch. Engr., all at Snohomish. Capital stock is $750,000, fully paid in. Prospectus and plan are on file at office of Engineering News, New York.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BRIDGEPORT, CONN.—The Wheeler & Wilson Manufacturing Co., a subsidiary corporation of the Singer Manufacturing Co., 149 Broadway, New York, will build a power plant at the works of the Sewing Machine Cabinet Co. The plant will be equipped with vertical direct connected engines, having a combined capacity of 1,200 HP.

ROCHESTER, N. Y.—Plans have been prepared for the erection of a power plant by the Rochester Railway & Light Co. Building is to be of concrete. Two 900-HP. turbines and two 600-KW. generators will be installed. W. M. Eaton, Rochester, is Secy. and Mgr.

FULTON, N. Y.—The Fulton Heat, Light & Power Co. is making plans to increase the size of its plant by installing electric machinery which will double its present capacity. Wm. Moon, of Fulton, is Supt.

GLEN HEAD (L. I.), N. Y.—Bids are asked until April 13 for lighting the village streets in Glenwood.

LOCKPORT, N. Y.—The Economy Light, Heat, Power & Fuel Co. is preparing to erect a power station here. Chas. R. Bishop is a director of the company.

NEW YORK, N. Y.—The Edison Co. plans to spend $1,000,000 this year in Brooklyn in placing wires underground and on construction work. In a letter to Bird S. Coler, Pres. Brooklyn Boro., the vice-president of the Edison Company, W. W. Freeman, says the company has planned the removal of overhead lines from twenty streets not later than Aug. 1. The underground system is to be extended and twenty miles of subways and mains added.

The Bureau of Yards and Docks, Navy Department, has awarded to EVANS, ALMIRALL & CO., 281 Water St., New York, the contract for furnishing boilers and other power plant apparatus for the navy yard, New York, on their proposition to furnish Stirling boilers, Foster superheaters, and Roney stokers, according to the government plans and specifications, at $116,295. The Bureau has also awarded the contract to the WESTINGHOUSE MACHINE CO. of Pittsburg, Pa., for two 750-KW. Turbo Alternators and accessories for the same navy yard, at $40,732.

PITTSTON, PA.—The PITTSTON LIGHT, HEAT & POWER CO., has been awarded the contract for lighting the streets and alleys of West Pittston for five years. A new power-house will be built at once. E. J. Rutledge is Pres.

PITTSBURG, PA.—It is reported that the Oliver Iron & Steel Co. will erect an electric power-house to cost, approximately, $50,000.

SCRANTON, PA.—The Economy Light, Heat & Power Co., Republican Bldg., is reported to be preparing plans for the erection of a $100,000 power plant.

PHILADELPHIA, PA.—Bids were received on April 7 by Bureau Yards and Docks, Navy Dept., Washington, D. C., for underground electric lighting cables at League Island, Navy Yard. The bidders were: John A. Roebling's Sons Co., 612 South Broad St., Trenton, N. J. (the lowest bidder, at $8,186); The National Conduit & Cable Co., Real Estate Trust Bldg., Philadelphia; Standard Underground Cable Co., 618 Westinghouse Bldg., Pittsburg.

HYATTSVILLE MD.—It is reported that plans are being prepared for the construction of the municipal electric lighting plant which was authorized at a recent election. C. H. Long is Clk. of Council.

WASHINGTON, D. C.—Bids are asked until 2 p. m., May 2, by the Department of Public Buildings and Grounds, for lighting public grounds during the year ending June 30, 1907. Col. Chas. S. Bromwell.

MARION, N. C.—W. W. Lotspeich, Engr.-in-Charge, writes us that contracts have been let for water-wheel and generator for power plant on Catawba River, as mentioned in issue of April 5. He is still in the market for other equipment. C. E. Madden, Biltmore, N. C., is Consult. Engr.

BAMBERG, S. C.—The contract for the municipal electric light plant has been awarded to the ELECTRIC SUPPLY CO., of Savannah, at about $15,000. The contract calls for a complete plant installed by August 1, to embrace 31 arc lights, together with a series of 25 incandescent lights. There is to be one 175-HP. heavy duty Corliss engine and one generator, 100 KW.

FLORENCE, S. C.—It is reported that the Pintsch Compressing Co., 160 Broadway, New York, have decided to erect a plant here to furnish the Coast Line with gas.

PIQUA, O.—It is reported that a municipal electric light plant will be erected here in the near future.

MARION, IND.—A new dynamo is to be installed in the city lighting plant. Otis Weesner is Supt.

RICHMOND, IND.—It is reported that the Richmond Light, Heat & Power Co. will build additions to its plant and install new machinery. O. H. Skinner is Ch. Engr.

HARTFORD CITY, IND.—A. B. Trentman, of Ft. Wayne, Ind., is preparing to build and equip an electric light and power plant in this city.

ROCHESTER, IND.—W. A. Michael, F. W. Preese and others have incorporated a company to build and operate a gas plant here.

IRON MOUNTAIN, MICH.—The Iron Mountain Light & Fuel Co., has been incorporated with a capital stock of $150,000.

GRAND RAPIDS, MICH.—The Grand Rapids Gas Light Co. has awarded a contract for the construction of a new gas holder at $185,000.

WAUKEGAN ILL. — WETHERSON, ENGLAR & CO., of Chicago, have secured the contract for erecting the North Shore Electric Co.'s new central power plant at Waukegan, half of which is to be built now and is to cost $150,000 when equipped. A substation will be built at Lake Bluff at a cost of $25,000.

It is reported that the Chicago & Milwaukee Electric R. R. Co. will build a power house here to cost about $3,500,000. A. C. Frost, Chicago, is Pres.

REDDICK, ILL.—It is reported that an electric plant will be erected here by N. Hamilton.

CARROLL, IA.—Nicholas & Kelly, of Perry, Ia., have been granted a franchise for the construction and maintenance of a gas plant here.

ST. PAUL, MINN.—We are informed by Oliver Crosby, Vice-Pres., West Side Power & Light Co., that contracts have been let for all machinery for new power plant noted in issue of March 29.

The Council has passed ordinances for improvements at the municipal lighting plant to cost about $40,000. L. E. Rundlett is City Engr.

GARDEN CITY, KAN.—Specifications for pumping plant, as noted in issue of April 5, are on file at office of Engineering News, New York. Bids asked until May 28.

GOODLAND, KAN.—HENDNI & BOTTHOFF MANUFACTURING CO., Denver, Colo., have been awarded contract for building plant of the Goodland Light & Power Co.

TOPEKA, KAN.—It is reported that the city electric light plant will be rebuilt at a probable cost of $25,000. S. Leachman is Ch. Engr.

PALESTINE, TEX.—The Palestine Gas Co., it is reported, will erect a new gas plant here.

GUTHRIE, OKLA.—It is reported that the Washita Valley electric railway will build power stations on the Pennington, Blue and Washita rivers in the Chickasha Nation to furnish 50,000-HP. for the operation of its lines. W. T. Crosien, Shreveport, La., is Gen. Mgr.

MARIETTA, IND. T.—We are informed by B. C. Logsdon, Mayor, that contract for the city light and water plant has been awarded to G. JAEGER, of Rich Hill, Mo., at $25,145.

BELLINGHAM, WASH. — It is reported that the Columbia Improvement Co. will build an electric power plant here at a cost of $70,000.

SPOKANE, WASH. — The Black Carbon Coal Co. will build a steam heating plant and install a steam heating system here at an approximate cost of $200,000.

SALEM, ORE.—The General Electric Co., of Portland, which recently purchased the Citizens' Light & Traction Co., will install 600 additional HP. at the Salem plant and will also add 250-HP. to the boiler capacity. Plans are perfected for transmitting 60,000 volts to Oregon City for Willamette Valley Traction Co. to furnish light and power to all towns along its line. H. W. Goode is Pres.

LOS ANGELES, CAL.—JOHN A. ROEBLING SONS CO., 117 Liberty St., New York, have been awarded contract for about 288 miles of transmission wire, by the Edison Electric Co., of Los Angeles, at about $250,000.

REDONDO, CAL.—It is reported that the Pacific Light & Power Co. of Los Angeles has awarded a contract to C. C. MOORE & CO., of Los Angeles, for the construction of a power plant here to cost about $250,000. H. H. Huntington is Pres.

BOISE, IDAHO.—It is reported that D. J. Winslow has secured a power site on the Snake River and will build a plant from which power will be transmitted to Boise, 96 miles, Baker City, 55 miles, and Huntington, 50 miles. The construction will consist of a 25-ft. dam, 1,400 ft. tunnel and complete plant and the estimated cost is $2,000,000.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

FALL RIVER, MASS.—Press reports state that a bridge is to be erected over the Taunton River, to cost $1,000,000.

HARTFORD, CONN.—Bids are asked until 11.30 a. m., April 18, for building an arch bridge of concrete and stone masonry over Woods River. Charles E. Parker, Secy., Board of Contract and Supply. (Advertised, Engineering News.)

NEW YORK, N. Y.—The following bids have been received by J. A. Bensel, Comr. of Docks, for building three new ferry bridges and pontoons, also rubber buffers, iron ladders, and spare parts of hoisting and mooring machinery: Geo. W. Rogers, 44 Broadway, New York, $33,800; P. Sanford Ross, Jersey City, N. J., $32,150; Bernard Rolf, 39 Cortlandt St., New York, $33,333; Geo. B. Spearin, 17 Battery Place, New York, $28,489.

NEW YORK, N. Y.—Bids are asked until 2 p. m., April 30, for furnishing the metal work for the anchorages, and constructing the towers, cables, suspenders and suspended superstructure of the Manhattan Bridge, over the East River. J. W. Stevenson is Comr. of Bridges. (Advertised, Engineering News.)

BEAVER, PA.—It is reported that the Pittsburg & Lake Erie R. R. Co. will erect a new bridge over the Ohio River from this city to Monaca, at a cost of $250,000. J. A. Atwoc is Ch. Engr., at Pittsburg.

STRAW PLAINS, TENN.—The Southern Railroad Co., it is reported, will construct a new steel double track bridge over the Holston River at this place. D. W. Lum, Washington, D. C., is Ch. Engr.

GRAFTON, O.—It is reported that a double track bridge will be built over the Black River by the Cleveland, Cincinnati, Chicago & St. Louis R. R. Co., at a cost of $40,000. George W. Kittredge, Cincinnati, Ohio, is Ch. Engr.

CLEVELAND, O.—GEO. H. BRAMLEY has been awarded contract for substructure of bridge to be built at Scharf Road, in Cuyahoga County, at $1,700. Contract for superstructure was awarded to the BROOKVILLE BRIDGE CO., at $1,400. W. H. Evers is County Engr.

FRANKFORT, IND.—The following contracts have been awarded for the erection of 22 concrete bridges: BERCAW & ADAMS, Lebanon, Ind., nine concrete arches, at $1,800; M. W. SAUNDERS, Frankfort, Ind., two concrete arches at $259; KINLEHER & SLIPHER, Frankfort, Ind., six concrete arches, at $5,072; FRANKFORT CONSTRUCTION CO., Frankfort, Ind., two concrete arches, at $6,615; LEWIS & BURK, Frankfort, Ind., three concrete arches, at $369.

CRAWFORDSVILLE, IND.—The Commissioners of Montgomery County have awarded contract to WALKER BROTHERS, of Bluffton, for four bridges; also, contract to ANDERSON BRIDGE CO., of Anderson, for three bridges. The contract for the cement substructures was awarded to W. C. HALSTEAD, of Indianapolis.

MT. VERNON, IND.—Bids are asked until 2 p. m., April 16, by the Commissioners of Posey County, for the construction of four steel bridges, one in Harmony Township, one in Marrs Township, and two in Robb Township.

COLUMBUS, IND.—Bids will soon be asked by the Commissioners of Bartholomew County, and the Commissioners of Decatur County, for the construction of a joint bridge over Bear Creek on the county line.

The Commissioners of Bartholomew County are preparing to receive bids for the construction of a 75-ft. steel bridge over Sand Creek, in Rock Creek Township.

LAWRENCE, IND.—Bids are asked until May 7 by Capt. B. F. Cheatham, Constr. Q. M., Lawrence, for constructing a reinforced concrete arch bridge.

WABASH, IND.—PHILIP HIPSKIND, of this city, has been awarded contract for the construction of eleven concrete arch bridges, at $4,256.

INDIANAPOLIS, IND.—THE ESSEX CONSTRUCTION CO., of Buffalo, N. Y., has been awarded contract for substructure, and the PENNSYLVANIA STEEL CO. contract for superstructure, for bridge over White River.

WARSAW, IND.—Bids are asked until April 16 by Eff Sharp, County Audr., for building five steel bridges in Kosciusko County.

CAYUGA, IND.—THE LAFAYETTE ENGINEERING CO., of Lafayette, Ind., has been awarded contract for the construction of a steel bridge over the Wabash River at this point, at $22,960. Fred. Rush, Terre Haute, Ind., is Engr.

LAFAYETTE, IND.—It is reported that the Lake Erie & Western R. R. Co. will rebuild the 650-ft. bridge over the Wabash River at this place, and construct a 1,100-ft. bridge at Freemont. G. P. Smith is Ch. Engr., at Indianapolis.

PORT HURON, MICH.—Five bids have been received for building a new bridge across Black River at Military St. and Huron Ave., ranging in price from $36,900 for a swing bridge, to $125,000 for an improved lift bridge. The Port Huron Bridge & Iron Co. was the lowest bidder.

CARLYLE, ILL.—Press reports state that the Commissioners of Carlyle Township have awarded a contract for a new bridge over the Kaskaskia River at White's Ford, at $5,200.

PEORIA, ILL.—THE ILLINOIS BRIDGE AND IRON CO has been awarded contract for building a new steel span, and repairing the old span, of the bridge across the Mackinaw River, on the road between Allentown and Mackinaw, at $3,470.

SIOUX CITY, IA.—It is reported that the contract for the construction of the new steel bridge over Perry Creek at Third St. has been awarded to the A. E. SHORTHILL CO., of Marshalltown, Ia., at $6,300. Other bids were as follows: Midland Bridge Co., Kansas City, $7,500; Canton Bridge Co., Canton, O., $7,695; Twin City Bridge Co., Minneapolis, $7,600; A. Y. Bayne & Co., Minneapolis, $6,600; Iowa Bridge Co., Des Moines, $6,640; J. W. Towle Co., Omaha, $8,000.

FREMONT, NEB.—Bids are asked until April 24 by the County Board of Supervisors, A. P. Shephard, Chn., for constructing the superstructure, substructure and approaches of all new bridges required during the year 1906.

WARRENSBURG, MO.—The Commissioners of Johnson County, C. A. Boyles, County Clk., will advertise for bids about September 1, for the construction of about 38 steel bridges in the county.

KANSAS CITY, MO.—It is stated that the city will construct an overhead viaduct at Lydia Ave. at a cost of $200,000. A portion of the cost will be paid by the Missouri Pacific R. R. Co., the Chicago & Alton Ry. Co. and the Metropolitan St. Ry. Co. E. A. Harper is City Engr.

AMARILLO, TEX.—Bids are asked until April 23 by the Commissioners' Court of Potter County, for the erection of a highway bridge across the South Canadian River, about 18 miles north of Amarillo. Frank Wolflin is County Clk.

OKLAHOMA, OKLA.—It is reported that the Chicago, Rock Island & Pacific Ry. Co. will build a bridge over the South Canadian River, near Union City. The superstructure will be of steel resting upon five great concrete abutments. It is estimated that the steel work alone will cost $225,000. J. B. Berry is Ch. Engr., at Chicago, Ill.

DENVER, COLO.—It is stated that the Rio Grande & Western Ry. Co. is considering the building of a suspension bridge over the Royal Gorge, to cost $100,000. Plans are about completed. E. J. Yard is Ch. Engr., at Denver.

PUEBLO, COLO.—Council has issued an ordinance authorizing the appropriation of $95,000 for a bridge and a viaduct over the Denver & Rio Grande R. R. tracks at South Main St.

FLORENCE, COLO.—The Canon City, Florence, Royal Gorge & Interurban Ry. Co. has completed arrangements for building what, it is said, will be the highest steel railway bridge in the world, over the Royal Gorge. The bridge will be of the suspension pattern, 500 ft., and will be built of solid steel. Estimated cost, $100,000.

ST. JOHN, N. B.—We are officially advised that the DOMINION BRIDGE CO., Montreal, Que., has the contract for building several bridges for the Intercolonial Ry. Co. Bids will be received June 30 for substructures. W. B. Mackenzie is Ch. Engr., at Moncton, N. B.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

FALL RIVER, MASS.—We are officially advised that ROBERT NICHOLSON & SON have been awarded contract for the erection of a 3-story brick and stone school building on North Main St., at $58,222. The building will be 75 × 135 ft. Contracts for heating and plumbing have not been let. L. G. Destremps & Son, 56 Main St., are Archs.

GARDNER, MASS.—C. CUTTING, of Hudson, Mass., has been awarded the contract for the erection of the Henry Haywood memorial hospital, at $100,000.

BOSTON, MASS.—Bids are asked until 10 a. m., May 3, for the construction, plumbing, heating and electric wiring of a brick hospital building at Fort Warren, Mass. Capt. Geo. L. Goodale, Q. M., 263 Summer St.

BOSTON, MASS.—It is reported that EDWIN GIEBERT & CO. have been awarded contract for the erection of a warehouse for the Keany Square Trust Co., at about $375,000.

BOSTON, MASS.—The following bids have been received for building the Normal and Latin School Group, Back Bay Fens: Woodbury & Leighton, Boston, Mass., $855,000; Geo. W. Harvey, Boston, Mass., $822,168; Wells Bros. Co., Boston, Mass., $775,900; Mack & Moore, Boston, Mass., $757,900; Bigelow & Mable, Boston, Mass., $750,750; Derby Desk Co., Boston, Mass., $740,000; A. C. Whitney, Boston, Mass., $726,000; J. B. Byrne, Cambridgeport, Mass., $725,777; Connery & Wentworth, Boston, Mass., $723,775; Whiton & Haynes Co., Boston, Mass., $683,183; G. A. Fuller Co., Board Trade Bldg., Boston, Mass., $663,980. Bids for installing plumbing system were as follows: J. F. Dunlan, $45,900; T. J. Welch & Co., Boston, Mass., $39,928; W. B. Johnson, Boston, Mass., $37,791; Thompson & Spear, Boston, Mass., $35,764; Huey & Bros., Boston, Mass., $34,777; Pierce & Cox, Boston, Mass., $34,293; Ed. C. Kelley, Boston, Mass., $33,721; Robt. F. Brown, Boston, Mass., $33,619; M. Ahern, Boston, Mass., $32,900; Wm. N. McKenna Co., 79 Chestnut St., Boston, Mass., $29,062.

NEWPORT, R. I.—Armstrong & Joyner, Archs., 1133 Broadway, New York, N. Y., have prepared plans for a new summer hotel, to be known as Prince George Inn. It will be 3½ stories, brick, 150 × 46 ft., and will be thoroughly equipped with up-to-date improvements, including a swimming pool, 80 × 42 ft.

SYRACUSE, N. Y.—The State Armory Commission has awarded the contracts for the armory to be built in this city as follows: Construction, M. STIP CONSTRUCTION CO., Scranton, Pa.; materials, from STATE PRISON DEPARTMENT, $360,537; heating, J. W. DANFORTH CO., Buffalo, N. Y.; installation of boilers, GAYLORD & IETAPENC, Binghamton, N. Y.; plumbing, YOUNG & POWERS, Syracuse; electric wiring, EDWARD JOY.

BINGHAMTON, N. Y.—MASON I. FORD, of Binghamton, has been awarded contract for the erection of the new Y. M. C. A. building on Washington St., at $152,756.

NEW YORK, N. Y.—We are officially informed that the MARINE ENGINE & MACHINE CO., 126 Liberty St., have been awarded contract for furnishing eleven electric elevators for the new Brunswick Building at Broadway, 26th St. and Fifth Ave. The building is to be 12 stories, and will be used as an office building instead of as a hotel, as originally intended. Francis H. Kimball, 71 Broadway, is Arch., and Chas. T. Wills, 156 Fifth Ave., builder.

NEW YORK, N. Y.—We are officially advised that A. R. WHITNEY, JR., & CO., 135 Broadway, have been awarded contract for the erection of a new 5-story and basement residence for Amos R. E. Pinchot, at 85th St. and Park Ave. The building will be 74 × 43 ft., and will be constructed of limestone, brick, terra cotta and granite. Hunt & Hunt, 28 East 21st St., are Archs.

The following bids were received April 6 by John F. Ahearn, Pres. Borough of Manhattan, for decorative mosaic ceilings in Chambers, Center and New St. vestibules, and such other places as outlined on plans for the new Hall of Records Building: M. J. Prior, 2142 Broadway, $37,750; Chas. Grimmer, 235 East 37th St., $36,000; Remington Sherman Co., 359 Broadway, $35,740; Robt. Fisher Co., 139 St. Rocust Ave., $33,000; New York Mosaic & Marble Co., 226 East 42d St., $31,970.

BROOKLYN, N. Y.—PETER J. RYAN, of Brooklyn, has been awarded contract for the erection of a new public school building at Remsen Ave. and Ave. F., at $171,000.

JERSEY CITY, N. J.—Plans have been prepared by Albert E. Westover, Arch., this city, for a 4-story stone and terra cotta theater building, 160 × 160 ft., to cost $200,000. King, Killough & Co., local contractors, are estimating on the work.

EAST ORANGE, N. J.—Press reports state that the Delaware, Lackawanna & Western R. R. Co. have prepared plans for a new station at this place, to cost $100,000. Lincoln Bush is Ch. Engr., at Hoboken, N. J.

ATLANTIC CITY, N. J.—The Atlantic City Hospital is having plans prepared by Davis Brothers, Archs., 1600 Chestnut St., Philadelphia, Pa., for a 4-story brick and steel addition, to be of fireproof construction.

BUFFALO, N. Y.—Plans have been prepared by Green & Wicks, Archs., 110 Franklin St., Buffalo, for a building for the Buffalo Seminary to be erected at Lincoln Parkway and Potomac Ave., to cost $75,000.

BUTLER, PA.—Press reports state that F. J. Porter, Arch., will erect a 3-story business block and apartment house at North Mercer and Sycamore Sts., at $50,000. The building will be 60 × 180 ft. S. W. & F. H. Foulk are Archs.

PHILADELPHIA, PA.—DOYLE & DOAK, 1509 Sansom St., Philadelphia, have been awarded contract for the erection of the Racquet Club's new building at 213 to 225 South 16th St. The building, with equipments and furnishings, will cost nearly $800,000. Horace Trumbauer, Land Title Bldg., is Arch.

BALTIMORE, MD.—Ellicott & Emmart, Archs., 1101-1102 Union Trust Bldg., are preparing plans for a bank building at Saratoga and Charles Sts., for the Colonial Trust Co. Building will be of stone and steel, 1-story and fireproof. Cost, $60,000.

WASHINGTON, D. C.—Bids are asked until noon, April 25, for furnishing and erecting iron stairways, fireproof hall floors and platforms in four public school buildings. Henry B. F. Macfarland, Comr. (Advertised, Engineering News.)

Bids are asked until 2 p. m., April 30, for roughing in plumbing material for the House of Representatives office building. Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds. E. A. Hitchcock, Secy. (Advertised, Engineering News.)

Bids are asked until noon, April 25, by the Commissioners of the District of Columbia, for furnishing iron stairways, fireproof hall floors and platforms for four public school buildings. (Advertised, Engineering News.)

Wood, Donn & Deming, Archs., 808 17th St., N. W., are preparing plans for the Carnegie Institute Building. The building will be constructed of brick, stone and steel, three stories, and will be fireproof. Cost, $100,000.

WASHINGTON, D. C.—P. J. Pelz, Arch., Corcoran Bldg., is preparing plans for an office building at 15th St. and New York Ave. for Pheem & Hensey. Building will be of brick and steel. Cost, $50,000.

NORFOLK, VA.—Bids are asked until April 14 for the erection of a 3-story frame hotel, 650 × 420 ft., by J. St. Clair, Supt., Jamestown Hotel Corporation. Board of Design, Jamestown Exposition Co., Archs.

MACON, GA.—Plans have been accepted for a new $50,000 dormitory to be erected by Mercer University. Charles Lee Smith is Pres.

KNOXVILLE, TENN.—Plans have been completed by Isaac Pursell, Arch., for a new church, 95 × 158 ft., to be constructed of Tennessee marble, with inside finishing of quartered oak, for the Second Presbyterian Church. Estimated cost, $100,000.

LOUISVILLE, KY.—We are officially advised that the SNEAD ARCHITECTURAL IRON WORKS have been awarded contract for the iron and steel work for the Lincoln Savings Bank building. No other contracts have been let. McDonald & Dodd, 600 Equitable Bldg., Louisville, are Archs.

CLEVELAND, O.—Bids are asked until noon, April 16, for building an annex to Outhwaite school. Charles Orr, Dir. Schools, Bd. Education, Rockwell and Bond Sts.

ROCKFORD, ILL.—It is stated that W. H. COOK, 401 South Court St., has been awarded contract to erect the 7-story steel and stone building at West State and South Main Sts. for the Rockford Trust & Safety Deposit Co. Probable total cost, $200,000.

MILWAUKEE, WIS.—JOHN P. CULLEN & CO., of Janesville, Wis., have been awarded contract to build the new state normal school, at $132,832.

SHERIDAN, WYO.—Bids are asked until 10 a. m., April 30, for construction, including plumbing, heating and electric wiring of an administration building and a post hospital, both brick, at Fort Mackenzie, Wyo. Capt. James S. Parker, Q. M.

KANSAS CITY, MO.—The DES MOINES BRIDGE & IRON WORKS have been awarded contract for the structural steel work of the R. A. Long office building, at $126,000.

DENVER, COLO.—Press reports state that Harlan & Thomas, Archs., 416 Boston Bldg., Denver, have prepared plans for a 3-story apartment building, to be erected by the Troy Investment Co., at Colfax and Grant Aves., at a cost of about $70,000.

SEATTLE, WASH.—THE FERRO CONCRETE CONSTRUCTION CO., of Cincinnati, O., has been awarded contract for the concrete and steel construction work on the remaining nine stores of the Empire and American Savings Bank and Trust Co.'s building, Second Ave. and Madison St., at $275,000 for each building.

SPOKANE, WASH.—The contract for a brick passenger depot at this place has been awarded to ROBERT WAKEFIELD, of Portland, Ore., at $52,000.

LOS ANGELES, CAL.—John C. Austin, Arch., Douglas Bldg., and Frederick G. Brown, Arch., both of Los Angeles, are preparing plans for a 10-story fireproof building to be erected by Wright & Callender, at Fourth and Hill Sts. Estimated cost, $200,000.

Bids are asked until 3 p. m., May 11, for the construction (except elevators, plumbing, heating apparatus, electric wiring and conduits) of the U. S. Post-office and Court-house Building, at Los Angeles, Cal. James Knox Taylor, Superv. Arch., Washington, D. C.

SAN FRANCISCO, CAL.—It is reported that contracts aggregating over $200,000 have been let for the foundations and general work on the new building to be erected for the First Church of Christ Scientist, at Sacramento and Scott Sts. John Galen Howard, 456 Montgomery St., is Arch.

PROPOSED WORK

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, **WAINWRIGHT RANDALL**
Editor Construction News

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

AUBURN, ME.—Work on the new reservoir will be commenced as soon as possible. About $15,000 will be spent on the reservoir this year. J. Bisbee is Supt.

CHARLESTOWN, N. H.—Bids are asked until April 20 by the Water Commission, for laying water pipe. The Water Commission will furnish pipe, gates, and gate boxes, hydrants, special castings, lead and jute; the contractor will furnish all other material, tools and labor. Oscar C. Young, M. D., Chn. Water Com. Noted on March 29th.

CAMBRIDGE, MASS.—The common council has voted about $298,663 for the construction of the pipe line between Fresh Pond and Hobbs Brook. The work will not be done by contract. Lewis M. Hastings is City Engr.

WESTBORO, MASS.—An issue of $35,000 bonds has been voted by the citizens for the purpose of improving the water supply. J. S. Gates is Town Clk.

PALMER, MASS.—It is reported that this town will soon establish a $200,000 water system.

WALTHAM, MASS.—SIMPSON BROS. CORP., of Boston, has the contract for the construction of the new reservoir here, their bid being the lowest. The reservoir is to be completed in 100 days.

ALBANY, N. Y.—Bids are asked until 3 p. m., April 16, by the board of contract and supply, for the completion of a contract for the constructing of an intake from the Hudson River to the pumping station at the filtration plant. Isidore Wachman is Clk. of Bd.

TRENTON, N. J.—The issue of $150,000 of bonds for the extension of the waterworks has been authorized by the common council. C. C. Haven is City Engr.

NEW YORK, N. Y.—The following bids were received on April 4 for pig lead, cocks, nozzles, etc., as noted in our issue of March 22. For stop cocks: The Rensselaer Mfg. Co., Troy, N. Y., $9,368; John Fox & Co., 253 Broadway, $11,275; Fairbanks & Co., 27 Beaver St., $8,588; McMann & Taylor, 104 John St., $8,662. For furnishing, delivering and laying mains and appurtenances: James P. Graham, Bath Beach, $272,806; Borough Construction Co., 44 Court St., $297,654; J. Harris Co., 485 Flatbush Ave., $240,691; Chester A. Dady, 350 Fulton St., $299,135; P. J. Murphy, Tenth Ave., Bay Ridge, $262,632; Robertson & Gerhart, Third Ave., Bay Ridge, $290,212; John J. Cashman, 44 Court St., $333,000. The bidders are all of the Borough of Brooklyn. For furnishing and delivering c.-i. water pipe, branch pipe, etc.: John Fox & Co., 253 Broadway, $45,303; M. J. Drummond & Co., 182 Broadway, $46,379. Wm. B. Ellison, Comr. Water, Gas and Electricity.

BUFFALO, N. Y.—Bids are asked until 11 o'clock a. m., April 19, by F. G. Ward, Comr. Pub. Wks., for the sale by the city and the purchase and removal by the bidder of ten boilers, now at the Pumping Station, Bureau of Water.

ALBANY, N. Y.—It is reported that the following bids were opened April 2 by the Board of Contract and Supply for a traveling crane to be used in the water-works: The North Penn Iron Co., $3,937 (90 days); North Eng. Works, $4,700 (130 days); Reading Crane & Hoist Co., $5,640 (60 days); Case Mfg. Co., $2,850 (60 days). Walter Melius is City Engr.

ASBURY PARK, N. J.—Bids are asked until noon, April 28, by J. L. Coffin, Supt. Dept. Water & Sewers, for pipe laying, tower and tank, pumps and boiler, engine and boiler house. I. S. Cassin, Jr., 2906 West Girard Ave., Philadelphia, is Consult. Engr. (Advertised, Engineering News.)

TRENTON, N. J.—An ordinance has been passed authorizing the issue of about $150,000 of bonds for the extension of the city water system. C. C. Haven is City Engr.

EAST ORANGE, N. J.—Bids are asked until 8 p. m., April 23, by the City Council for furnishing and laying 3,240 ft. of 12", 20 and 24-in. c.-i. pipe, building overflow chamber and connecting up driven wells at White Oak pumping station. Edgar Williams is City Clk. (Advertised, Engineering News.)

INDIANA, PA.—Bids are asked until 3 p. m., April 26, by the Clymer Water Co., for the construction of a distributing reservoir. Frank L. Harvey is Pres. (Advertised, Engineering News.)

ALTOONA, PA.—We are officially informed that the City Water Department here has under consideration the construction of a 1,500,000,000-gallon reservoir, below the two storage dams at Kittannug Point. Bids will not be asked until about June 1. C. W. Knight, Rome, N. Y., is Engr.; C. B. Campbell, Altoona, Pa., is Secy.

McKEESPORT, PA.—At a meeting of the Board of Water Commissioners held March 31 the following contracts were let: Cast iron pipe, to the UNITED STATES CAST IRON CO., Scottdale; curb cocks and street boxes, to the ANCHOR SANITARY CO., of Pittsburg; pig lead and lead pipe, to BAILEY, FARRELL & CO., Pittsburg. The contract for valves was not let.

MT. PLEASANT, PA.—A second pipe line is to be constructed by the Pennsylvania R. R. Co. from Indian Creek to Pittsburg.

PITTSBURG, PA.—Two water purifying plants are to be erected at Bessemer and Demmler by the Baltimore & Ohio Ry.

Regarding the proposed expenditure of $15,000,000 by the Pennsylvania R. R. Co. for water plants along the main line between New York and Pittsburg, as noted in issue of March 22, Jos. T. Richards, Ch. Engr., of M. of W., writes us as follows: "We are simply strengthening up our weak points where the water has not been of very good quality, and on account of the growth of traffic we have naturally been compelled to lay pipes for more water, and in doing so we get as good a quality as possible. As you no doubt know, our supply of water at Altoona has been limited say once in three or four years, and we have been compelled to haul water for a month or so during the dry season. Last year we did not happen to have a dry season, but we are enlarging our reservoirs and laying pipes for longer distances. This is about all there is in the scheme."

ALLENTOWN, PA.—The contract for furnishing boilers for Allentown pumping station has been awarded to WM. H. TAYLOR & CO., of Allentown, at $6,800.

PHILADELPHIA, PA.—An ordinance was introduced in the select council on April 5 to appropriate $315,000 to furnish sand, gravel, etc., for filtering purposes.

WASHINGTON, D. C.—Bids are asked until noon, April 28, for furnishing 200 tons of 12-in. c.-i. water pipe. Henry B. F. Macfarland, Comr. (Advertised, Engineering News.)

NEWPORT NEWS, VA.—A large stand pipe, 150 ft. high, with a capacity of 1,000,000 gallons and costing about $15,000, is to be erected by the Peninsula Pure Water Co.

WHEELING, W. VA.—Contract has been awarded to GEORGE CLIFFORD, of Martins Ferry, for the installation of a pumping station for the town of Loveland. The work will cost about $15,000.

LAURINBURG, N. C.—J. T. Myers, City Secy., states that bonds amounting to $34,000 have been sold for water-works and sewerage system. J. M. Bandy, Greensboro, is the Engr.

BUENA VISTA, GA.—Bids are asked until 2 p. m., April 30, by the Mayor and Council for furnishing boilers, pumps, hydrants, etc., for constructing power-house and reservoir and for laying about two miles of pipe. Pipe furnished by city. T. B. Rainey is City Clk. (Advertised, Engineering News.)

EGMONT, FLA.—Bids are asked by Lieut. R. H. Jordan, Contr. Q. M., until April 25, for constructing seven 6,000-gallon cypress cisterns and the rebuilding foundation under eight cisterns at Fort Dade, Fla.

GADSDEN, ALA.—As $150,000 of bonds have been sold and the money is now available, this city may now proceed with new water-works.

NEW ORLEANS, LA.—Plans and specifications for furnishing and laying 106 miles of water pipe, as noted in issue of April 5, are on file at office of Engineering News, New York. Bids to be opened May 15.

BOWLING GREEN, KY.—Specifications for 3,000,000-gallon pumping engine, as noted in issue of April 5, are on file at office of Engineering News, New York. Bids to be opened April 26.

AKRON, O.—It is reported that the state board of public works has decided to build new reservoir, covering about 175 acres.

CINCINNATI, O.—Bids are asked until noon, May 1, by the Commissioners of Water-works for the construction of a head house, chemical house, filter house, valve house and wash water reservoir at the filter plant. August Herrmann is Pres. (Advertised Engineering News.)

LIMA, O.—We are officially informed that contract for pumping machinery in connection with water-works improvements, noted in issue of April 5, has been awarded to YOUNG & SUMMERS, Toledo, O. J. K. Brice is City Engr.

MICHIGAN CITY, IND.—The board of public works has instructed the clerk to advertise for bids for 125 tons of 6-in. water pipe and 50 tons of 12-in. pipe for extension purposes. The pipe required will cost about $4,000. Harry M. Miles is City Engr.

UPLAND, IND.—The Upland Water & Gas plant, recently destroyed by fire, will be rebuilt. J. Bugher is Pres.

HOWARD CITY, MICH.—Bonds amounting to $11,680 have been issued for the purpose of erecting a new brick water-works system.

CONNERSVILLE, ILL.—It is reported that this city is planning the construction of a mechanical filtration plant. Walter Wagner, 185 Dearborn St., Chicago, is Consult. Engr.

KANKAKEE, ILL.—T. H. Inglehart has made a report to the town board of Bourbonnais regarding the cost of a complete water system for that place. He estimates cost at about $20,000.

CHRISMAN, ILL.—At a bond election recently held it was voted to issue bonds for $6,000 for the completion of the water-works plant.

OLTON, ILL.—The Olton Water Co. has been incorporated by Wm. E. Smith, G. M. Lewis and others, of Alton, with a capital of $400,000. E. E. Rutledge is City Engr.

BLOOMINGTON, ILL.—The council has passed an ordinance ordering the construction of new water main at an estimated cost of $30,383. Elmer Folsom is City Engr.

Des Moines Water Co. is planning the construction of seven miles of new water mains ranging in size from 6 to 20 ins. John W. Budd is City Engr.

COON RAPIDS, IA.—It is planned to build a 60,000-gallon standpipe here. It will be 82 ft. high.

ALBIA, IA.—Bids are ask[illegible] by T. J. Baird, City Clk., [illegible] tion of water-works. C. R. [illegible] Ia., is Consult Engr.

ARLINGTON, NEB.—Pre[illegible] that A. G. Ludwig is pre[illegible] the erection of a water-works [illegible] $35,000.

GLENDIVE, MONT.—GRE[illegible] CO. have been awarded [illegible] constructing a water-works [illegible] $39,000.

JUNCTION, ARK.—The [illegible] Light & Water Co. has be[illegible] with a capital of $10,000, by [illegible] R. G. Brown and D. K. Brow[illegible]

OKLAHOMA CITY, OK[illegible] asked by George Hess, City [illegible] m., April 24, for furnishin[illegible] constructing a water-works [illegible] & McDonnell, 709 Dwight [illegible] City, Mo., are Consult. Engr[illegible]

LA JUNTA, COLO.—Bids are [illegible] p. m., April 18, by S. W. Bi[illegible] for furnishing c.-i. water pi[illegible] hydrants and valves, one [illegible] high duty pump and erecting [illegible]

PARKER, COLO.—Bids are [illegible] a. m., April 20, by Col. C. A. [illegible] Constructing Q. M., Denver, [illegible] ing a deep well at the Fort [illegible] range here.

FORT FLAGER, WASH.—Bi[illegible] until 2 p. m., April 24, by [illegible] Q. M., for the construction of [illegible] gallon reservoir and pipe con[illegible]

PORT TOWNSEND, WASH[illegible] asked until 2 p. m., April 24, [illegible] Penrose, Q. M. U. S. A., for [illegible] tion of a 1,000,000-gallon reser[illegible] connections at Fort Flagler.

WENATCHEE, WASH.—It [illegible] the contract for furnishing [illegible] pipe line has been awarded [illegible] TIONAL WOOD PIPE CO., of [illegible] $6,500.

ALBANY, ORE.—Bonds for $[illegible] been authorized to cover cost of [illegible] ing a water-works system.

NAMPA, IDAHO.—The contract [illegible] struct the reservoir here has been [illegible] to the lowest bidder, THE FARIS-KESL CONSTRUCTION CO., of Boise, at $20,111.

SEARCHLIGHT, NEV.—It is reported that a reservoir to contain 50,000 gallons will be placed on Granite Hill.

BEAVER, UTAH.—The Mammoth Canal & Irrigation Co. has been incorporated with a capital of $10,000 by H. A. White, H. J. Cox and others for the purpose of constructing an irrigation system in Beaver County.

MONTREAL, QUE.—It is reported that water-works improvements are to be constructed at an estimated cost of $159,[illegible]. Supt. Janin is in charge.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Contract for the construction of about 1,600 lin. ft. of brick and concrete sewers has been awarded by the Boston Transit Commission to COLEMAN BROS., 15 Court Sq., Boston, at (a) by open cut, (b) if 515 ft. should be done by tunnel, (a) $38,845, (b) $39,435. Other bidders were Peter W. Hill, 426 Old South Bldg., (a) $60,665, (b) $59,630; F. S. & A. D. Gore Corp., 511 Old South Bldg., (a) $53,197, (b) $52,572; G. W. Regan, Dorchester, (a) $49,522, (b) $49,990; J. J. Coughlan Construction Co., 19 Worthington St., (a) $48,565, (b) $48,785; Falvey & Kelly, Dorchester, (a) $52,945, (b) $48,015; J. E. Palmer, 166 Devonshire St., (a) $52,730, (b) $47,692; Patrick McGovern, 6 Beacon St., (a) $46,420, (b) $47,230; C. R. Gow Co., 79 Milk St., (a) $48,040, (b) $45,905; Bruno, Salamone & Petitti, 23 Court St., (a) $40,790, (b) $45,355; Geo. W. Phillips, Dorchester, (a) $53,497, (b) $45,070; Hugh Nawn Contracting Co., Roxbury, (a) $40,946, (b) $41,450; Rowe & Perrini, South Framingham, (a) $40,040, (b) $41,345. All bidders of Boston unless otherwise specified. B. Leighton Beal is Secy.

SPRINGFIELD, MASS.—The council has voted $7,000 to be used for repairing sewers. Chas. M. Slocum is City Engr.

BOSTON, MASS.—F. H. Cowan Co. was the lowest bidder for sewerage construction in East Boston, at $4,157. William Jackson is City Engr.

WHITINSVILLE, MASS.—A board of sewer commissioners has been appointed to prepare plans for the construction of a sewer system for which $80,000 has been appropriated. Edward Glueck is Chn.

BUFFALO, N. Y.—Bids are asked until 11 a. m., April 18, by the Department of Public Works, for the construction of a 15-in. tile sewer in Layer Ave., and a 10-in. tile sewer in Willow Lawn. F. G. Ward is Comr.

CORTLAND, N. Y.—Bids for sewer construction have been received as follows (a) brick manholes, (b) concrete manholes: James Cormando, (a) $10,032, (b) $10,065; Samuel Brown, (a) $9,973, (b) $9,690; E. C. Hookway, $11,700, for both kinds; C. P. Lewis, $12,503, both constructions; Connors & Conley, (a) $11,591, (b) $11,386; P. J. Conroy, (a) $11,770, (b) $11,555; James Grant, (a) $10,322, (b) $9,857.

SYRACUSE, N. Y.—Frank J. Schnauber, City Engr., has furnished to the common Council estimates on about three miles of sewers which the city will construct this year. About 50 miles of sidewalks are also to be laid here this year at a cost of about $158,400.

NEW YORK, N. Y.—The following contracts for sewer construction in Long Island City have been awarded by Joseph Bermel, Pres. Queens Boro.: Blackwell and Crescent Sts., THOMAS WALSH, at $9,263; catch basins in various streets and sewer in Washington Ave., GABRIEL HILL, at $4,955.

OLEAN, N. Y.—Bids are asked until 8 p. m., April 20, by the City Council, for about 1,045 lin. ft. of 8 and 10-in. sewers. E. E. Allen is Supt. of Sts.

BRONXVILLE, N. Y.—Bids are asked until 8 p. m., April 23, by Frank Dinsmore, Village Clk., for the construction of about 5,000 lin. ft. of sewers. Ellis W. Gladwin is Village Pres. (Advertised, Engineering News.)

PITTSBURG, PA.—Bids are asked by Elliott & Bacon, Engrs., Keystone Bldg., Pittsburg, until May 12, for construction of 14,000 lin. ft. of 12-36-in. sewers for the Borough of Edgeworth, Allegheny County.

SCRANTON, PA.—An ordinance has been signed by the mayor providing for the construction of sewers in many streets in the 12th and 13th wards. Henry Jifkins is Ch. Engr. Dept. Pub. Wks.

FRANKLIN, PA.—F. S. SMEDLEY has been awarded the contract for constructing the Cooper Ave. sewer, at $41,747. The sewer is to be of brick 30 to 52-in. in diameter with stoneware laterals from 6 to 20-in. in diameter.

ERIE, PA.—DAVID JONES has been awarded the contract for constructing a sewer in Huron St., at 60 cts. per ft. for 9-in. and 35 cts. per ft. for 6-in. pipe. Manholes $28 each.

ATLANTA, GA.—Plans for the construction of sewer in Johns and Orme Sts. and South Boulevard, at an estimated cost of $20,000 have been prepared. R. M. Clayton is City Engr.

MILLEDGEVILLE, GA.—Date for opening bids for the construction of 3½ to 4½ miles of sanitary sewers has been changed from April 12 to May 2. Estimated cost is $20,000. Julius A. Horne is Mayor.

ATHENS, ALA.—It is reported that R. Winthrop Pratt, Ch. Engr., Ohio State Board of Health, of Columbus, O., has been selected to examine and report on the project of reconstructing the sewage disposal works.

NEW ORLEANS, LA.—Plans and specifications for sewers, mentioned in issue of March 8, are on file at office of Engineering News, New York. Bids to be opened May 8.

NEWPORT, KY.—The Sewer Committee of the General Council has ordered sewers constructed in various streets.

LOUISVILLE, KY.—The Commissioners of Sewerage of Louisville are intrusted with the construction of an addition to the existing sewer system of Louisville, at an approximate cost of $4,000,000. W. N. Morrill, Topographer U. S. Geological Survey, has been detailed to make a topographic map of the city and adjacent portions of Jefferson county. Joshua B. F. Breed will assume the position of Ch. Engr., for the Commissioners of Sewerage on April 16.

FINDLAY, O.—Bids are asked until noon April 17 by the Board of Public Service, for constructing a sanitary intercepting sewer in Sewer District No. 3 in North Findlay. J. C. Edle is Clerk.

YOUNGSTOWN, O.—Bids are asked until noon April 18 by the Board of Public Service, for the construction of a sewer in Cumberland Ave., from Belmont Ave. to Covington St. G. T. Prosser is Clerk.

COLUMBUS, O.—We are officially advised that the Ohio Legislature has provided an appropriation of $15,000 for sewage disposal for the Girls Industrial Home, near Delaware, O. This money, however, will not be available until February, 1907, and definite plans will not be prepared until then. R. Winthrop Pratt is Ch. Engr., Ohio State Board of Health.

ELKHART, IND.—A. M. Smith, City Civil Engr., has completed plans for a trunk line sewer to drain Northeast and a portion of North Elkhart.

GRAND RAPIDS, MICH.—Bids are asked until 2 p. m., April 13, by the Board of Public Works, for the reconstruction of a sewer in Pleasant St., South Union St., and Sherman St., from South Lafayette St. to South East St. J. G. Keegan is Pres.

MUSKEGON, MICH.—The following bids have been received for the construction of the Jackson St. sewer: James Price, of Holland, $15,386; W. R. Jones, $16,243; Concrete Construction Co., $13,130; Kloote & Vander Veen, of Grand Rapids, $14,800; A. C. Schreiter & Co., Waukegan, $13,125.

DECATUR, ILL.—Bids will soon be asked for the construction of the East Prairie St. sewer, laterals, etc. Estimated cost, $29,557. A. B. Alexander is City Clk.

ALTON, ILL.—JOHN S. CUTHBERTON has been awarded contract for the construction of the Third St. sewer, at $9,600.

WATERLOO, IA.—Plans are being prepared for the extension of the sewerage system in East Waterloo. Estimated cost, $25,000.

ST. PAUL, MINN.—GREEN & SONS have been awarded contract for a sewer on Thomas St., from Grotto to Chatsworth; Chatsworth, Thomas to Charles and Charles, from Chatsworth to Victoria Sts., at $27,600. The other bidders were: Ilstrup & Olson, Minneapolis, $39,915; Ryan & Johnson, $39,780; James Forrestal & Co., $44,430.

MINNEAPOLIS, MINN.—The Committee on Sewers has awarded contract to the MINNEAPOLIS CONCRETE & CEMENT BRICK CO. for 250,000 cement sewer brick at $8.50 per thousand, and a contract for 1,000,000 red pressed sewer brick to the WISCONSIN RED PRESSED BRICK CO., at $9.25 per thousand.

McCOOK, NEB.—Bids are asked until 8 p. m., April 27, by W. A. Middleton, City Clk., for the construction of 7,820 ft. of 8, 12 and 15-in. sewers. (Advertised, Engineering News.)

SPRINGFIELD, MO.—Bids are asked until May 1 for the construction of sewers. W. H. Schreiber is City Engr.

ST. LOUIS, MO.—H. R. Fardwell, Sewer Comr., writes us "that about the last of April, we will have two contracts to let, one known as 'Harlem Creek Sewer,' about 2,000 ft. of which being of reinforced concrete, ranging from 29 ft. to 25 ft.; the amount of money that will be spent on this work is about $300,000. The other is known as 'Reconstruction of Rocky Branch Sewer,' which will consist of taking out the old bottom, enlarging and replacing with concrete and vitrified brick; the estimated cost for 8,000 ft. being $125,000."

CLEVELAND, OKLA. — CHARLES T. DERR, of Guthrie, has been awarded the contract for the Cleveland sewer system, at $29,200.

SEATTLE, WASH.—Plans are being prepared by the City Engineer for the construction of all sewers in the Capitol Hill sewer district and it is reported that bids will be advertised for in a few weeks.

An ordinance has been passed providing for the construction of a sewer in 12th Ave. R. H. Thompson is City Engr.

SAN FRANCISCO, CAL.—The East Potrero sewer to cost $80,000 and a main intercepting sewer for the North Beach district to cost $50,000 have been ordered constructed by the supervisors. Thos. P. Woodward is City Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

ELMIRA, N. Y.—It is reported that the Bennett Incinerating Co. has completed plans for a garbage crematory and construction will begin in the near future.

NEW YORK, N. Y.—Bids are asked until 10 a. m., April 17, by the Board of Health, for the construction of an incinerator building at the Kingston Ave. Hospital, Brooklyn. Thomas Darlington, M. D., is Pres.

OSWEGO, N. Y.—Bids are asked until 10 a. m., April 24, by Lieut. Henry H. Hall, Construct. Q. M., for the erection of a garbage crematory and crematory building at Fort Ontario, N. Y. Former bids rejected. (Advertised, Engineering News.)

TAMPA, FLA.—Contract has been awarded to the Dixon Garbage Crematory, Toledo, O., for the construction of a garbage incinerating plant, at $27,000. Other bidders were: Sanitary Engineering Co., New York, $35,000; Smead & Co., Cincinnati, $5,650 per machine; De Carli Incinerator Co., Minneapolis, $45,000; Sanitary Reduction & Construction Co., $45,000; Morse-Boulger Destruction Co., $15,800. W. R. Fuller is Pres. Bd. Pub. Wks.

MASSILLON, O.—The council, it is reported, will soon pass ordinances for the construction of a garbage disposal plant. Harold Howald is City Engr.

TOLEDO, O.—The city disposal plant is unable to handle all of the city's garbage, and plans are being prepared for a new system of garbage disposal. Oscar Sabin is Pres. Bd. Pub. Service.

DULUTH, MINN.—It is reported that Duluth will inaugurate a municipal system of garbage collection and disposal in a few weeks. Thos. F. McGilvray is City Engr.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

HOLYOKE, MASS.—We are officially informed that the following contracts have been let by the board of public works for the supply of granite curbing: JOHN FRAWLEY, Erving, Mass., 6-in. curbing at 57 cts. per lin. ft.; GEORGE W. PARMELEE, Haddam, Conn., for 4-in., at 41 cts.

QUINCY, MASS.—Bids are asked until noon, April 23, by the Metropolitan Park Commission for grading, loam, etc. John R. Rablin is Engr.

BOSTON, MASS.—Bids are asked until 10 a. m., May 6, by Capt. George L. Goodale, Q. M. U. S. A., 263 Summer St., for the construction of roads, ditch, etc., at Fort Revere, Mass.

BOSTON, MASS.—Bids are asked until noon, April 18, by the City Engineer for paving and regulating Bennington St., East Boston. William Jackson is City Engr.

QUINCY, MASS.—Bids are asked until noon, April 23, by the Metropolitan Park Department, State of Massachusetts, 14 Beacon St., Boston, for grading, surfacing, etc., at Furnace Brook Parkway.

LITTLE FALLS, N. Y.—We are officially advised that plans are nearly completed for 3,500 sq. yds. of brick paving with an estimated cost of $9,000, and that the contract probably will be let in June. E. Ten Eyck Lansing is City Engr.

AUBURN, N. Y.—The bids asked for by J. S. Hanlon, City Clk., to be opened April 3, for paving Owasco St. with asphalt, have been returned unopened. We have been officially informed that bids undoubtedly will be readvertised, to be opened about April 17. J. Walter Ackerman is City Engr.

LONG ISLAND CITY (L. I.), N. Y.—Contracts were awarded on April 2 by Joseph Bermel, Pres. Boro. Queens, for 15 highway improvements and for street signs, aggregating nearly $150,000. For regulating, grading, curbing and laying sidewalks on the following streets in Long Island City, contracts were awarded as follows: Beebe Ave., 2,750 lin. ft., H. J. MULLIN, $26,386. THOMAS A. BROWN was awarded contracts for work on Sixth Ave., Dutch Kills St., Seventh Ave., Crescent St., Wilbur, Washington and Eighth Aves., a total of 10,318 lin. ft., at total of $64,612. For regulating, grading, curbing, laying sidewalks and paving with asphalt on a concrete foundation North Washington Place, from Hallet St. to Van Alst Ave., Long Island City, 400 lin. ft., BARBER ASPHALT CO., at $3,859.

For furnishing and putting up 200 street signs and posts, two signs to a post, and 2,500 for houses, WILLIAM R. THOMPSON, $2,471.

For delivering to Bureau of Highways 3,000 yds. of limestone screening, 2,500 yds. of broken stone of limestone, THOMAS TUOHY & CO., $10,175.

For furnishing 10,000 cu. yds. of trap rock screenings for any part of borough and 3,000 cu. yds. trap rock broken stone 1½ ins., BROWN & FLEMING, $25,950; for 5,000 cu. yds. of same ¾-in., JACOB E. CONKLIN, $10,450; for 2,000 yds. 1½-in., JOHN DONALDSON, $4,000.

BRONXVILLE, N. Y.—Bids are asked until 8 p. m., April 23, for grading and paving Hobart St. Frank Dinsmore is Village Clk. (Advertised, Engineering News.)

ALBANY, N. Y.—Bids are asked until 3 p. m., April 16, by the board of contract and supply for furnishing materials and work for improvements on Lake Ave. and Mulberry St. Walter Melius is City Engr.

NEW YORK, N. Y.—Bids are asked until 3 p. m., April 18, by John F. Ahearn, Boro. Pres., for furnishing 75,000 gallons of No. 6 paving cement.

Bids are asked until 3 p. m. by John F. Ahearn, Boro. Pres., for work of repairing and maintaining asphalt pavements in the Borough of Manhattan.

JAMESTOWN, N. Y.—The board of public works has been authorized to advertise for bids for paving a portion of West Second St. and Hazzard St. C. A. Jones is Acting City Engr.

SYRACUSE, N. Y.—Contracts have been let for paving to the WARNER-QUINLAN ASPHALT CO., F. J. BAKER, THOMAS MARNELL, J. W. BUSTIN, the CENTRAL CITY PAVING CO.

Bids will soon be asked for more than a mile of paving. Estimates have been furnished by Frank J. Schnauber, City Engr., to the common council on about eight miles of pavement, of which five miles will be laid this year.

SOMERVILLE, N. J.—RICHARDSON & GASTON, 142 Liberty St., New York, have contract for grading, road work, etc., on the estate of J. B. Duke at this place. Julian Bros., 110 Mott St., will furnish the workmen.

HOLLY BEACH, N. J.—Bids are asked until 8 p. m., April 24, by H. S. Hewitt, Boro. Clerk, for 14,500 sq. yds. of brick paving on Pacific Ave. (Advertised, Engineering News.)

PERTH AMBOY, N. J.—An ordinance to pave a part of Gordon St. with bitulithic was passed by the city council. Forrest L. Smith is City Engr.

BRADFORD, PA.—Bids are to be opened for the paving of three streets on April 16. We are officially informed that 10,500 sq. yds. of brick paving is required, the estimated cost of which is $28,400. A. F. Bannon, Jr., is City Engr.

ALTOONA, PA.—We are officially advised that it is proposed to lay 150,000 sq. yds. brick paving at an estimated cost of $300,000, and that bids will be asked for soon. Harvey Linton is City Engr.

ERIE, PA.—MAYER BROS. were given a contract to build asphalt pavement on Park Ave., at $6,747. The estimated cost was $8,300. B. E. Briggs is City Engr.

Bids will be received by the state highway department of Pennsylvania for constructing 25,677 ft. of road.

WILKINSBURG, PA.—The Wilkinsburg Boulevard Co. has been formed to build a turnpike road between Wilkinsburg and North Braddock.

The Legislature of Maryland has passed a bill providing for construction of a road between Baltimore and Washington at a cost of $90,000. It is probable that the road will be made of macadam.

BALTIMORE, MD.—A systematic plan for the paving of the Annex has been adopted by the Commissioners for Opening Streets, and will be carried out under the operation of the $2,000,000 loan. For heavy traffic Belgian blocks on a sand base have been selected by the Commissioners. Vitrified brick will be used on residence streets on which travel is comparatively light. In the rural parts of the Annex, where there is little development, macadam will be laid. Bitulithic will be tried on 25th St. as a substitute for vitrified brick; but alternative bids for bitulithic, asphalt blocks and vitrified brick are called for. If the bitulithic bid is not satisfactory, one of the other pavements will be selected if the prices are not too high. But if bitulithic is laid, if the price is low enough, and if the people want the pavement elsewhere it will be laid in other sections of the Annex where vitrified brick has been selected. The same procedure will be carried out with respect to the other selected pavements. There will always be alternative bidding. The selected pavement will be shown no partiality unless the prices are right. Bituminous macadam will also be used. Sheet asphalt and asphalt blocks probably will not be selected for any pavement. J. Arthur Wickham, Pres. Comrs. Opening Sts., 723 North Calvert St.

We are officially advised that DANIEL SULLIVAN was awarded the contract for paving Erdman Ave. with macadam at 94 cts. a sq. yd., including 350 cu. yds. grading. Vitrified brick gutter with cobble rebuts, $1.75 sq. yd. Extra grading, not included in grading, 45 cts. a cu. yd. Edward Brady, Clk. Bd. Awards.

NORFOLK, VA.—The city council has approved of the proposition to widen Newton and Boush Sts. This work will involve an expenditure of $54,000. W. T. Brooke is City Engr.

PORTSMOUTH, VA.—Bids are asked until 8 p. m., May 7, by the Street Committee for 4,100 lin. ft. of granite curbing and 9,900 sq. yds. of paving. Bascom Sykes is City Engr. (Advertised, Engineering News.)

CHARLESTOWN, S. C.—Bids are asked for until 11 a. m., April 28, by Mordecai T. Endicott, Ch. of Bureau, for filling in and grading at the navy yard at this place.

GAINESVILLE, FLA.—THE SOUTHERN FUEL & SUPPLY CO. has secured a contract to lay four miles of granolithic combination curb and gutter and two miles of macadam. The contract price is $40,000.

MONTGOMERY, ALA.—An ordinance has been passed by the council to pave Sayre St. with vitrified brick, asphalt or bitulithic pavements. Allen R. Gilchrist is City Engr.

AUGUST, GA.—The council has ordered that new bids be asked for regarding the paving of several streets.

Contract for laying new sidewalks for the year 1906 has been awarded to W. F. BOWE.

MERIDIAN, MISS.—It has been ordered that vitrified brick pavement be laid on several streets in this place.

COVINGTON, KY.—Council has passed an ordinance ordering the reconstruction of Scott St., from Park Place to Fifth St., and Fifth St. from Scott St. to Madison Ave., with creosote wood block paving.

ASHLAND, O.—We are officially informed that Center St., this city, is to be paved with brick or asphalt, covering 3,500 sq. yds. Highland Ave. will also be paved with brick or asphalt, covering 5,500 sq. yds. F. L. Niederheiser is City Engr.

INDIANAPOLIS, IND.—Bids will soon be received by the Board Public Works for cement walk and curb on Douglas St.; cement walk and curb on 31st St.; cement walk and curb on Massachusetts Ave.; cement walks, curb and sodding lawn in Irving Place; gravel roadway and cement walks on Ringold St.

EVANSVILLE, IND.—Bids are asked until May 1 by the Board Public Works for paving St. Joseph Ave. with brick.

SHERIDAN, IND.—NOLAND & SLATTERY, of Crawfordsville, have been awarded contract for paving Main St. with brick, at $35,000.

POSEYVILLE, IND.—Plans are being prepared for the construction of 24 miles of rock road in Robb township, Posey county. J. W. Smith is Supt.

KOKOMO, IND.—The contract to pave Union St. with brick has been awarded to DIXON & HUNT, at $12,657.

RENSSELAER, IND.—Bids are asked until April 26 by the County Commissioners for the construction of 20,800 ft. of stone roads in Joseph county.

VINCENNES, IND.—Bids are asked until May 8 by the Commissioners of Knox county for the construction of 5,315 ft. macadamized road in Vigo township. John F. Scott is County Audr.

BRAZIL, IND.—Bids are asked until May 8 by the Commissioners of Clay county for the construction of a gravel road in Posey and Jackson townships. J. Frank Smith is Audr.

Bids are asked until 7.30 p. m., April 19, by the common council for paving, curbing, sidewalks, sewers, etc., for several streets. Geo. A. Fletcher is City Engr.

DETROIT, MICH.—The Department Public Works will soon advertise for bids for paving Josephine Ave. from John R. St. to Oakland Ave. with cedar blocks on concrete foundation and Berea, Medina, Elyria or other approved curbing. Estimated cost, $12,075. J. J. Haarer is Comr. Robt. H. McCormick is City Engr.

GRAND RAPIDS, MICH.—JAMES McDERMOTT & SONS have been awarded contract for paving Scribner and West Bridge Sts.

EDWARDSVILLE, ILL.—We are officially advised that A. F. FRANKS, of Jacksonville, Ill., has been awarded two contracts for 16,400 sq. yds. brick paving on 5-in. concrete foundation, at $1.65 and $1.68 per sq. yd.; 5,600 lin. ft. stone curb at $0.45, and 3,400 lin. ft. granitoid combination curb and gutter at $0.75. The total for both contracts is $32,602. Chas. A. Sheppard is City Engr.

CHAMPAIGN, ILL.—Bids are asked until 2 p. m., April 24, by the Board of Local Improvements for 11,670 sq. yds. brick pavement and 8,100 lin. ft. concrete curb on State St. G. C. Fairclo is City Engr. (Advertised, Engineering News.)

ELGIN, ILL.—It is stated that the Board of Local Improvements has passed resolutions providing for the paving of Highland Ave. from Crystal St. to the city limits with brick and asphalt, at an estimated cost of $50,000.

OSHKOSH, WIS.—Bids are asked until noon, April 21, by the Board of Public Works for macadam paving on Otter, Grove and Madison Sts.

SUPERIOR, WIS.—The following bids have been received for paving Winter St.: (a) sandstone blocks, (b) bitulithic macadam, (c) brick, (d) creosoted blocks: Fielding & Shepley, St. Paul, Minn., (a) $44,816, (c) $38,091, (d) $43,654; E. A. Dahl, Superior, (a) $45,470, (c) $39,391, (d) $46,812; Warren Bros., Boston, Mass., (b) $37,383; A. J. McDonald, Superior, (d) $55,657. S. M. White is City Engr.

ST. PAUL, MINN.—Bids are asked until 11 a. m., May 1, for repairs and construction of cement sidewalks, curbings, and crossings at Fort Snelling, Minn. Capt. Amos W. Kimball, Q. M.

ST. PAUL, MINN.—GREEN & SONS have been awarded a contract for paving at $27,600.

LESUEUR CENTER, MINN.—Bids are asked until April 27 for a cement sidewalk and curbing at the court-house. A. H. Zieharth is County Audr.

AUSTIN, MINN.—FIELDING & SHEPLEY, of Minneapolis, have been awarded contract for paving various streets, at $35,271.

WICHITA, KAN.—WILLIAM F. HALL has been awarded contract for paving Topeka Ave., at $1.81 per sq. yd. No other bids were received.

GREAT FALLS, MONT.—Bids are asked until 8 p. m., April 30, by W. P. Wren, City Clk., for repaving Central Ave. with asphalt. Geo. W. Bird is City Engr. (Advertised, Engineering News.)

KANSAS CITY, MO.—The contract to grade Swope Parkway has been let to W. H. WHITE at $20,000.

ISAAC ROBINSON has been awarded the contract to pave Linewood Boulevard at $1.33 a sq. yd. for macadam and $2.10 a sq. yd. for asphalt.

SPRINGFIELD, MO.—Bids are asked until May 1 for gravel streets. W. H. Schreiber is City Engr.

EL PASO, TEX.—The following bids were received for paving various streets: Mexican Asphalt & Paving Co., $227,540; Mexican Asphalt & Paving Co., $213,790; A. Jaicks Co., $233,850; Parker-Washington Asphalt Co., $200,980; Parker-Washington (rock asphalt), $192,980; Barber Asphalt Co., $165,772; Barber (sup. bid), $149,772; Barber (bitulithic), $180,572; Cleveland Trinidad, $189,955; Cleveland Trinidad (vitrified brick), $233,830; Cleveland Trinidad (sup. bid), $181,610; Ockander Bros. (vitrified brick), $233,830; McCullem Crandall (vitrified brick), $243,830; Nelson Paving Co. (rock asphalt), $205,700; D. H. Wells Bitulithic, $221,620; D. H. Wells (sup. bid), $189,620. The contract was awarded to the WARREN BITULITHIC CO., represented by D. H. Wells, of Dallas, Tex., for standard bitulithic pavement.

ASHLAND, ORE.—A newly formed company propose to build a road of 90 miles length, from a point ten miles west of Leland to Port Orford.

RIVERSIDE, CAL.—H. M. Chittenden, Engr., has submitted estimate of cost of a proposed road and highway up Mount Rubidoux to Frank A. Miller, of Riverside. It would be 3¼ miles long, protected its length by a wall of rock. The cost is placed at $30,000.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—It is reported that the Boston & Maine R. R. will erect car repair shops, locomotive works, coal handling and storage plant at East Somerville to cost about $1,750,000. H. Bissell, Boston, is Ch. Engr.

NEW BEDFORD, MASS.—It is reported that the Page Manufacturing Co. will erect a three-story mill, 364 × 100 ft. It is planned to build a boiler house, engine room and machine shop in addition.

CHICOPEE, MASS.—It is reported that the Dwight Co. will build a two-story brick weave shed, 136 × 580 ft.

PROVIDENCE, R. I.—The Hope Webbing Co., of Pawtucket, will erect at once, it is reported, a combination weave shed and office building, to be of brick, three stories and cover an area of 130 × 85 ft.

HARTFORD, CONN.—A five-story fireproof machine shop will be built here by the Pratt & Whitney Co., at an estimated cost of $200,000.

BUFFALO, N. Y.—It is reported that the Otis Elevator Co. is about to build a factory building, 398 × 308 ft., and 22 ft. high, at 160 Grider St. The estimated cost is $125,000.

BUFFALO, N. Y.—It is reported that plans will be prepared immediately for rebuilding the plant of the Buffalo "Times," which was destroyed by fire recently. Norman E. Mack is Proprietor.

NEW YORK, N. Y.—J. E. Olson will build an eleven-story brick building for factory and stores, 50 × 85 ft., at 41 and 43 West 25th St. Estimated cost is $250,000. F. C. Zobel, 114 East 28th St., is Arch.

WHITING, N. J.—CHARLES THOMPSON, of Tom's River, has been awarded the contract to build a steel magazine and brick laboratory for the E. I. du Pont Powder Co., of Wilmington, Del., which will start a new powder mill here.

BRACKENRIDGE, PA.—It is reported that the Allegheny Steel & Wire Co., of Pittsburg, will erect two open-hearth furnaces at an estimated cost of $140,000. Capt. Alfred Hicks, Baum and Graham Sts., Pittsburg, is in charge.

HENRYTON, MD.—W. F. Pattison & Sons, of Pittsburg, are preparing to erect a large plant for the grinding of feldspar and the manufacturing of china and porcelain ware on 80 acres of land in Carroll and Howard Counties, Md. The factory will cost about $40,000.

ROANOKE, VA.—The Norfolk & Western Ry. Co. plans to erect a foundry, 144 × 740 ft.; paint storehouse, 63 × 82 ft.; and a boiler shop, 39 × 51 ft. The present paint shop, 74 × 152 ft., is to be extended to 74 × 300 ft. All the buildings will be of brick and steel. L. E. Johnson, 398 Broadway, New York, is Pres.

MOUNT OLIVE, N. C.—C. M. Black, of the Kinston Cotton Mills, Charlotte, it is reported, will build a 5,000-spindle cotton mill here.

LUMBERTON, N. C.—It is reported that R. D. Caldwell, of the Lumberton Cotton Mills, will erect a plant to manufacture hosiery, yarns, etc., at an estimated cost of $100,000.

The First National Bank is reported interested in the building of a $120,000 factory.

PELHAM, GA.—The Pelham Manufacturing Co. will erect a new 6,500-spindle mill, two stories, 105 × 175 ft., at an estimated cost of $75,000.

ATLANTA, GA.—A $30,000 factory, to be occupied by Ford & Johnson, chair manufacturers, will be erected by the Miller Union Stock Yards. A. F. Walker is Arch.

LAGRANGE, GA.—Bids are asked until May 3 by C. V. Truitt, Pres. Elm City Cotton Mills, for the erection of mill buildings. Plans will be ready April 16 and on file at Lagrange and at the office of A. F. Walker, Arch., Austell Bldg., Atlanta, Ga.

CHATTAHOOCHE, TENN.—The Whittier mill of this city has been incorporated with a capital stock of $500,000 with privilege to increase to $1,000,000, by Paul Butler, of Lowell, Mass.; W. R. B. Whittier and C. L. Anderson, of Atlanta, Ga.

CLINTON, TENN.—It is reported that the Magnet Knitting Mills will erect a two-story mill 140 × 45 ft., for the manufacture of hosiery.

READERS' WANTS FOR THOSE IN THE MARKET

The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, **mention Engineering News.** Have you a copy of our Buyers' Guide? **Engineering News Can Help Buyers.**

DYNAMO.—St. Louis, Mo.—George E. Dyson, 4257 Evans Ave., St. Louis, Mo., is in the market for a small dynamo.

BOILER.—Ball Flat, Ala.—We note that Davis & Son, of Ball Flat, Ala., are in the market for a 30-HP. tubular boiler.

ENGINE.—Edgewold, S. C.—We note that S. L. Boozer, Edgewold, S. C., is in the market for a 15-HP., second-hand engine.

BOILER.—Branchville, S. C.—We are informed that A. S. Dukes, of Branchville, S. C., is in the market for a 60-HP. boiler.

WOODWORKING MACHINERY.—Prescott, Ark.—John C. Lancaster, Prescott, Ark., desires to purchase a second-hand turning lathe.

ENGINE.—Roxboro, N. C.—We note that W. T. Buchanan, Roxboro, N. C., is in the market for an 8-HP. traction or gasoline engine.

ENGINE AND BOILER.—McDowell, Tex.—We are informed that Benjamin Worley, McDowell, Tex., is in the market for an engine and boiler.

ALCOHOL ENGINE.—Cincinnati, O.—We are informed that the Blymer Iron Works Co., Cincinnati, O., desires the names of firms making a 3-HP. alcohol engine.

PUMP.—Dycusburg, Ky.—We are informed that F. B. Dycus & Co., of this place, are desirous of purchasing a second-hand deep well pump to supply a 40-HP. boiler.

SCRAPERS.—Allentown, Pa.—We are officially informed that the Universal Construction Co., of this city, is in the market for new or second-hand scrapers.

ICE AND REFRIGERATING MACHINERY.—Hamilton, Can.—R. K. Palmer, C. E., Hamilton, Can., desires the names of firms making ice and refrigerating machinery.

ENGINE AND BOILER.—Houston, Tex.—We note that John Stadler, Commerce St., Houston, Tex., is in the market for a double cylinder, reversible hoisting engine and boiler.

PAPER BOX MACHINERY.—New York, N. Y.—Irving A. Chandler, Engr., 120 Liberty St., New York, is desirous of catalogues and all data pertaining to paper box machinery.

CONCRETE MIXER.—Iroquois, Ill.—Thomas Cross, Iroquois, Ill., writes us that he wishes to purchase a second-hand hand power concrete mixer and a second-hand derrick winch.

BLUE PRINT FRAMES.—Ft. Valley, Ga.—We are in receipt of a letter from O. L. Harper, Ft. Valley, Ga., stating that he desires to communicate with firms making blue print frames.

RADIAL BRICKS.—Newark, N. J.—Francis McCue (contractor for radial brick chimneys), Newark, N. J., writes us that he desires names of firms near Buffalo, N. Y., making radial brick.

PLASTIC SLATE ROOFING.—Charleston, S. C.—The Simons-Mayrant Co., Engrs., Charleston, S. C., desires data relative to plastic slate to be used in a government building in that city.

AIR COMPRESSOR AND DRILL.—Winchester, Mass.—Edwin L. Stone, Supt. Water-Works, writes us that he desires to rent an air compressor and drill for the excavating of about 250 cu. yds. of rock.

METAL CEILINGS.—West Palm Beach, Fla.—We are in receipt of a letter from G. I. Metcalf, Secy., stating that the Board of Trustees contemplates specifying metal ceilings for a proposed school building at West Palm Beach. He desires all information possible.

AUGER.—Loydminster, Sask.—We are in receipt of a letter from James A. Stewart, Engr., Loydminster, Sask., Can., in which he states he desires to purchase an auger to use in testing for sand, in making soundings and surveys.

ENGINES AND SAW-MILL MACHINERY.—Amherst, Va.—We note that the Union Hardware Co., of Amherst, Va., is in the market for new or second-hand gasoline and steam engines, planers and saw-mill machinery.

WIRE-WORKING MACHINERY.—Richmond, Va.—We note that R. M. Nolting, Secy., Richmond Iron Works, Richmond, Va., is in the market for equipment necessary for the manufacture of wire window guards and bank railing.

LOCOMOTIVE, DUMP CARS, ETC.—Glendive, Mont.—Edward S. Baer, Engr., informs us that he is in the market for one 10 × 16, 36-in. gage dinkey locomotive, 20 4-yd., 36-in. gage two-way dump cars, and 200 tons of 25-lb. steel.

CONTRACTOR'S EQUIPMENT AND MATERIAL.—Rock Island, Ill. — We are informed that the Concrete Construction Co. of Rock Island, Ill., is in the market for all kinds of contractor's equipment and materials for all kinds of construction work.

SEWER TRENCH MACHINE.—Toronto, Ont.—The Toronto Construction & Paving Co., Toronto, Ont., inform us that it desires to rent a sewer trench machine, Moore or Carson preferred. Also one trench excavator capable of excavating a trench 27 ins. × 12 ft.

WATER-WORKS MATERIAL.—Newtown, O.—George B. Clifford, Martins Ferry, O., informs us that he is in the market for cypress wood tanks, pumps, engines and several miles of pipe for the construction of a complete system of water-works at Newtown, O.

COPPER QUOTATIONS.—Havana, Cuba.—José Abrahantes, Havana, Cuba, writes us that he is part owner of a copper mine on the island of Cuba, and says the ore yields about 20% copper, 1% silver and some other metals. He is desirous of quotations on each.

CEMENT MACHINERY.—Habana, Cuba.—We are informed that Z. Violette, Mgr. of El Almendares, Fabrica De Cemento Portland, Paso De La Madama, Habana, is in the market for various kinds of cement machinery as the capacity of the company's plant will be doubled.

ORANGE-PEEL OR CLAM-SHELL DIPPER.—Burdette, Ark.—Wm. M. Kerr, Engr., Burdette, Ark., writes us that he is in the market for a small second-hand orange-peel or clam-shell dipper of about 1¼ cu. yds. capacity. He contemplates operating the same on a Decker log loader.

STEEL CASTING.—New Orleans, La. — We are in receipt of a letter from A. M. Lockett & Co., Engrs., New Orleans, La., stating that they have a small tool which they desire to make from casting, and are anxious for data relative to making castings of high carbon steel.

WOOD PAVING.—Dayton, O.—We are in receipt of a letter from F. A. Waldron, Engr. of the National Cash Register Co., Dayton, O., stating that he is considering the question of paving the roadways around the company's plant with wood block paving and desired all information on the subject.

EXCAVATING MACHINERY.—Hazel, Ind. T.—We are in receipt of a letter from McReynolds & Co., Railroad Contractors, Hazel, Ind. T., in which they state that they desire a steam power machine which can be used in excavating or embankment work and also used for loading ballast in cars. The machine desired should be capable of removing 12 to 15 cu. yds. each trip.

MEMPHIS, TENN.—A double band saw-mill will be erected in North Memphis by C. L. Willey, Robey St. and Blue Island Ave., Chicago. Building will be of mill construction, 2½ stories, 60 × 200 ft.

LOUISVILLE, KY.—A broom factory is to be erected at an approximate cost of $50,000 by the Myers Bridge Co.

COLUMBUS, O.—It is reported that a manufacturing plant four stories high and 56 × 100 ft., will be erected by the Jones Shoe Manufacturing Co.

ASHTABULA, O.—The Consumers' Brewing Company has prepared plans for the erection of a bottling works at a cost of $20,000. George J. Loewe is Pres.

DECATUR, ILL.—The Wabash R. R. Co. has awarded contract to JAMES STEWART & CO., of St. Louis, for the following works: Car shop, 88 × 484 ft.; blacksmith and machine shop, 80 × 294 ft.; wood working mill, 80 × 238 ft.; storeroom, 40 × 464 ft., with 2-story office building at one end; cabinet, tin, upholstery, glazing and electrical work shop, 40 × 550 ft.; coal, iron and coke shed, 20 × 294 ft.; power-house, 60 × 108 ft.; dry kiln, 20 × 82 ft., with reinforced concrete roofs. Also an oil paint shop with reinforced concrete roof and floors and some small sheds. Bids are asked by C. A. Howe, Act. Purch. Agt., for machinery for these shops.

FREEPORT, ILL.—E. V. MILLER has been awarded the contract for the construction of additions to the Arcade Manufacturing Co.'s foundry. Buildings, 52 × 82 ft. and 62 × 200 ft. will be erected.

DECATUR, ILL.—Contract for the construction of 15 buildings for the Wabash R. R. for repair shops, etc., as mentioned in issue of March 22, has been awarded to JAMES STEWART & CO., of St. Louis, at about $400,000. The work will include: Car shop, 462 × 85 ft.; blacksmith and machine shop, 295 × 80 ft.; cabinet shop, 350 × 40 ft.; wood mill, 238 × 80 ft., and ten smaller buildings.

CHICAGO, ILL.—C. A. Piamondon is having plans prepared by L. E. Stanhope for a seven-story manufacturing block, 80 × 100 ft., to be erected at Monroe and Clinton Sts., and to cost $100,000.

It is reported that L. G. Hallberg, Arch., 84 La Salle St., is preparing plans for a warehouse and manufacturing building to be built on Ontario St., near La Salle Ave., for the Chicago Flexible Shaft Co. It will be eight stories, 45 × 100 ft., and cost $80,000.

A two-story factory will be erected at 43d Ave. and Congress St., at an estimated cost of $20,000. W. G. Williamson, 153 La Salle St. is Arch.

MILWAUKEE, WIS.—The Chicago, Milwaukee & St. Paul Ry. Co. will increase its shops at this place and make this the shop headquarters for its entire system. The improvements include an addition to the car shop, 80 × 668 ft. with a second addition to the same building, 44 × 103 ft., giving a total area of 58,000 sq. ft. in addition to the present area of 60,000 sq. ft. A concrete blacksmith shop, 80 × 600 ft. to be equipped with machinery to build cars and locomotives, will also be built. The estimated cost is $500,000.

Extensive improvements are to be made by the Illinois Steel Company at its Bay View mills in this city, which will represent an outlay of about $100,000. The improvements include enlargements of top and bottom mills, an addition to the merchant mill and the renewing of the trains and mill with new engines and boilers.

It is reported that the Knauth Lithographing Co. will erect an addition to its plant at Fourth and Cedar Sts. to cost $45,000. Laiser & Holst are Archs.

PORTLAND, ORE.—It is reported that the Oregon Furniture Co. will enlarge its plant by erecting an addition, three stories, 80 × 150 ft.

The American Cereal Co., of Chicago, will erect a branch factory here for the manufacture of food stuffs. C. C. [illegible] is Secy.

An ice factory to be run in connection with Weinhard's Brewery, will be built at an approximate cost of $60,000.

J. G. Martzolf, it is reported, will erect immediately a pressed brick factory with a daily capacity of 10,000,000.

NAMPA, CAL.—The Nampa Manufacturing Co. has been incorporated with a capital of $100,000 to build and operate flour and feed mills at Nampa.

SAN BERNARDINO, CAL.—The Cudahy Packing Co., of Omaha, will commence the erection of a large cold storage and distributing plant here.

SANDWICH, ONT.—Harry Conant, American Consul at Windsor, Ont., advises us that it is planned to build a $10,000,000 steel plant and large soda ash plant at Sandwich.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

LOCK AND DAM.—Dallas, N. Y.—Bids are asked until noon, May 28, for building lock and dam No. 6, on Trinity River, Texas. Capt. W. P. Wooten, Engr. (Advertised, Engineering News.)

IRON FENCE.—Prescott, Ark.—Bids are asked until 3 p. m., May 7, for constructing of iron fence at Whipple Barracks, Ariz. Capt. Charles C. Walcutt, A. Q. M. (Advertised, Engineering News.)

DITCH.—Findlay, O.—Bids are asked until May 1 for constructing the Michael Bowers Joint County ditch. Estimate of quantity: 83,550 cu. yds. of earth. C. J. Peters and E. C. Bolton, Engrs.

DREDGING.—New York, N. Y.—Bids are asked until noon, May 8, for dredging in Canarsie Bay, Great South Bay and Huntington Harbor, N. Y. Col. W. R. Livermore, Engrs. (Advertised, Engineering News.)

DAM.—Billings, Mont.—Specifications and contract drawings for the construction of the Lower Yellowstone dam, as noted in issue of April 5, are on file at office of Engineering News, New York. Bids are asked until May 10.

BULKHEAD.—Baltimore, Md.—Bids are asked by the Harbor Board, N. H. Hutton, Harbor Engr., Dept. Public Improvements, until 11 a. m., April 25, for construction of a stone and timber bulkhead to form the new south line of Pratt St. (Advertised, Engineering News.)

HIRE OF DREDGING PLANTS.—New York, N. Y.—Bids are asked until noon, May 8, for hire and operation of one or more dredging plants for dredging in Harlem River, N. Y. Col. W. R. Livermore, Engrs. (Advertised, Engineering News.)

DREDGING.—Butler, Mo.—Contract for 4,000,000 cu. yds. of excavation in drainage district No. 1, Bates County, will be sold by A. H. Bell, Engr., to the lowest responsible bidder on May 1, at east door of courthouse in Butler. J. F. Herrell, County Clk. (Advertised, Engineering News.)

SPRINKLER.—Holyoke, Mass.—Bids are asked until 1.30 p. m., April 20, by the Board of Public Works for the operation of a street railway sprinkler or automobile sprinkler. M. F. Walsh, Chn. Information for bidders is on file at office of Engineering News, New York. (Advertised, Engineering News.)

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by H. T. B. Harris, Paymaster Gen., Bureau of Supplies and Accounts, Navy Dept., until 10 a. m., April 24, for various supplies, including cement, gate valve, bolts, hydraulic jacks, water meters, steam pumps, asbestos gaskets, etc.

DIKES.—New York, N. Y.—Bids are asked until noon, May 10, by Col. W. R. Livermore, Engrs. Army Bldg., New York, for delivering round timber and piling; square timber and lumber; and tie rods, bolts, spikes, etc., for constructing and repairing dikes in Hudson River. (Advertised, Engineering News.)

DRAINAGE.—Bergenfield, N. J.—Bids are asked until 4 p. m., April 28, for draining the lowlands lying in the Boroughs of Bergenfield and Dumont, Bergen County, by Walter Christie, Treas. Dumont Drainage Comn. Watson E. Clark, 1125 Broadway, New York City, Engr. (Advertised, Engineering News.)

RIVER WIDENING.—Rahway, N. J.—We are officially informed that the Rahway River & Harbor Improvement Association has been organized, with Edward S. Savage as Pres. and H. S. Barnes, Secy., to awaken interest in project to widen and improve the Rahway River at this place. Government aid will be sought.

DAM SLUICE GATES.—Yuma, Ariz.—Bids were received on Feb. 28, at the headquarters of the Yuma Project, Reclamation Service, for the construction of the Laguna Dam sluice gates and regulating gates, as follows: J. G. White & Co., 46 Exchange Pl., New York, $65,900, time, 200 days; Port Huron Shipbuilding Co., Port Huron, Mich., $72,500, time, 320 days.

FILLING AND GRADING.—Charleston, S. C.—Bids are asked until 11 a. m., April 28, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for filling and grading at the Charleston Navy Yard. Specifications are on file at office of Engineering News, New York. Mordecai T. Endicott, Ch. of Bureau.

RAILROAD TRACK SCALE.—Portsmouth, N. H.—We are officially advised that Priest, Page & Co., 16 Franklin St., Boston, were the lowest bidders for the construction of a 100-ton railroad track scale at the navy yard, Portsmouth, N. H., at $1,615.

BULKHEAD.—Albany, N. Y.—Walter Melius, City Engr., informs us that the bill authorizing the improvement of the Hudson River front, by the construction of a concrete bulkhead, has not yet passed the state legislature. Surveys have been made and plans are now under way for the wall. It is to extend from the northern line of the Albany basin to Island Creek.

SPILLWAY, ETC.—San Francisco, Cal.—We are officially advised that one bid was received on March 30, from Edward Malley, San Francisco, for constructing spillway and for placing large rock at barrier No. 1, Yuba River, Cal., at total of $42,380. Capt. Wm. W. Harts, Corps Engrs. It has been recommended to the Chief of Engineers, U. S. Army, that this bid be accepted.

CANAL.—Billings, Mont.—Bids are asked until 2 p. m., May 24, for the construction of Division 1, Garland Canal, Shoshone Project, involving the excavation of about 600,000 cu. yds. of earth; about 96,000 cu. yds. of rock and shale, and the construction of incidental structures, about 15 miles northeast of Cody, Wyo. E. A. Hitchcock, Secy. Dept. of Interior. (Advertised, Engineering News.)

DAM.—Dayton, O.—We are officially advised that an ordinance has been introduced in city council, providing for the issuance of bonds for the Miami River dam and park. When this is passed the city council probably will call for designs, estimates and bids for the work. Judge C. W. Dustin, of the Circuit Court, Second Circuit of Ohio, of Dayton, is interested in the work. Est. cost, $100,000.

DREDGING.—Philadelphia, Pa.—One bid only was received on April 2 for dredging the channel of the Delaware River, by Thomas L. Hicks, Dir. Dept. Public Works. It was submitted by the American Dredging Co. and was $945,205. The appropriation is $750,000. Bids may be readvertised as a result of protest from various dredging companies which claim unfairness in the present specifications.

WHARF, QUAY WALL. — Bremerton, Wash.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded a contract to the PUGET SOUND BRIDGE DREDGING CO., of Seattle, Wash., for a timber wharf at the Puget Sound Navy Yard, Bremerton, Wash., for the sum of $3,873, and a contract for an extension of the concrete quay wall at the same navy yard to T. RYAN, of Seattle, Wash., for the sum of $28,400.

COAL PROPERTY DEVELOPMENT.—Port Hawkesbury, N. S.—Alexander Bain, American Consular Agent, advises us that the Breton Coal Co. is developing coal property at Port Malcolm, about three miles from Port Hawkesbury. Company is sinking a shaft and will build a short railroad and shipping pier during the summer. There is also a road surveyed from Chimney Corner to Port Malcolm or Caribou Cove, N. S. This project probably will be undertaken next year.

DREDGING.—New London, Conn.—We are officially informed that bids were received as follows by Lieut.-Col. C. F. Powell for dredging in Thames River, Conn. (Estimated amount, 108,500 cu. yds.) Atlantic Dredging Co., 15 Whitehall St., New York, N. Y., 29 9/10 cts.; J. Marvin Briggs, 17 Battery Pl., New York, 19 8/10 cts.; Seely, Taylor Co., Inc., 78 Broad St., New York, 29 cts.; John P. Randerson, 755 Madison Ave., Albany, N. Y., 28 cts.; The T. A. Scott Co., Inc., New London, Conn., 19¾ cts.

SEAWALL.—San Francisco, Cal.—We are officially advised that the following bids were received on April 5 for construction of Section Twelve of the seawall (150,000 tons of rock, 2,240 lbs. to a ton): Warren Improvement Co., 87½ cts. per ton; E. B. & A. L. Stone, $1.30; Gray Bros., 69 cts.; Atlantic, Gulf & Pacific Co., 84 cts.; Healy, Tibbitts & Co., 73½ cts.; Bull & Gossard, 87 cts. All are local bidders. Contract, we are advised, probably will be awarded to Gray Bros., Wells-Fargo Bldg., San Francisco.

DREDGING.—Washington, D. C.—We are officially advised that bids were received on April 4 for dredging in (a) Breton Bay, Md., (b) Mattaponi and (c) Pamunkey Rivers, (d) Occoquan and (e) Carters Creek, Va., as follows: E. L. Miner, Petersburg, Va.: (a) $6,000; (b) $3,000; (c) $2,400; (d) $6,000; (e) $5,440. Charles P. Grim, Philadelphia, Pa.: (a) $5,812; (b) $2,925; (c) $2,340; (d) $5,100; (e) $4,569. L. M. Lewis, Berkeley, Va.: (a) $5,550; (b) $4,825; (c) $3,860; (d) $9,675; (e) $6,715. Capt. Spencer Cosby, Corps Engrs.

DRAINAGE TUNNEL.—Cripple Creek, Colo.—D. W. Brunton, Engr., Denver, Colo., advises us that work of raising funds is in progress for proposed drainage tunnel for unwatering the mines of this district. Prospects are good. Bids will be received as soon as money is raised. The tunnel is to be built by the Cripple Creek Mine Owners' Association. By this new tunnel the water will be lowered 1,130 ft. below the present drainage tunnel level, if the plan is adopted to locate the portal at Window-in-the-Rock, as favored by Mr. Brunton, who reported on the matter for the mine owners. The tunnel will be about 18,000 ft. in length, and will cost about $750,000.

CANAL.—Billings, Mont.—We are officially advised that bids probably will be received by the U. S. Reclamation Service this coming summer for proposed canal, which will be 27½ miles long. The Secretary of the Interior has provisionally set aside $1,000,000 for the construction of this canal from St. Mary Lake to the north fork of Milk River in connection with the "Milk River project, Montana." The engineer in charge of the work is Cyrus C. Babb. The supervising engineer for the district is H. N. Savage, at Billings, Mont. Among the supplies that will be required are Fresno scrapers, drag scrapers, plows, shovels, picks, harness, single trees, double trees, chains, etc.

DREDGING, ETC.—Brunswick, Ga.—We are officially advised that A. F. CHAPMAN & CO., Prudential Bldg., Buffalo, N. Y., has been awarded contract for the following work: (1) for dredging and filling from 200,000 to 300,000 cu. yds.; (2) for construction of two piers; (3) for construction of sheds on piers, and four storehouses on shore for the Atlantic & Birmingham Ry. terminal, at about $400,000. We are informed that "this work contains a new feature in Atlantic coast construction, all piling used in piers being of reinforced concrete, molded on land in pieces 50 ft. long, and driven with a hydraulic pump. Construction is to begin at once and the work is to be completed within a year.

TUNNEL.—Kansas City, Mo.—In reference to the proposed Twelfth St. tunnel, to be built by the Metropolitan Street Ry. Co., in this city, we are officially advised by Edwin C. Meservey, City Counselor, that no ordinance has yet been passed by the common council authorizing its construction. An ordinance has been introduced in behalf of the company, which provides for a tunnel and viaduct commencing at Twelfth St. and Bradway, in this city, and ending near Twelfth and Liberty Sts. The proposed tunnel is to be 2,600 ft. long, and the viaduct 2,000 ft. long. It will have a uniform grade of 4.6% through the entire length of the tunnel, containing a public roadway and sidewalks 30 ft. wide (inside measurement), and a roadway for the street railroad 24 ft. wide (inside measurement). The Metropolitan Co. proposes to build the tunnel and viaduct at its own expense, and to maintain and light it for 30 years, provided the city will extend its street railway franchises throughout this city, which now expire June 1, 1925, until June 1, 1936. Estimated cost of the tunnel and viaduct is about $1,500,000. C. N. Black is Engr. of the Metropolitan Co.

CANAL.—Pittsburg, Pa.—Under date of March 12th, we are officially informed by Representative James H. Davidson, Chn. of Committee on Railways and Canals, Washington, D. C., that the House of Representatives has passed the Dalzell bill, which grants a federal charter to the Lake Erie & Ohio River Ship Canal Co. If the bill should secure favorable action in the Senate and become a law, the company will organize under that charter, and will then proceed to finance the project to build a ship canal between Pittsburg, Pa., and a point on Lake Erie, probably at Ashtabula, O. It is to be about 100 miles in length, with depth of 12 ft. George M. Lehman, of Pittsburg, is Engr.; John E. Shaw is Secy. of company. It is estimated that it would take 15 years' time in which to build the canal. The Pittsburg "Press" states that "in May, 1905, a charter was secured in Pennsylvania and a corps of engineers was put at work devising routes. The sum of $600,000 was raised before application was made for the charter and officers were chosen for the company that was to promote the building of the proposed canal. The route lay along Beaver River, passing the industrial towns of New Brighton, Beaver Falls, Rochester and Beaver to the Mahoning River and passing Youngstown and Niles, O. It is estimated that the canal would cost $25,000,000, but the annual saving by canal haulage in ore and coke will be $23,000,000."

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

TUGBOAT, SUPPLIES, ETC.—Panama.—Bids are asked by D. W. Ross, Pur. Agt., Isthmian Canal Comn., Washington, D. C., until 10.30 a. m., April 27, for tugboat, steel dump barges, door bolts and butts, files, saw-sets and clamps, etc. (Advertised, Engineering News.)

SUCTION DREDGES.—Panama.—Date for receiving bids for furnishing two sea-going suction dredges has been postponed until 10.30 a. m., April 23. D. W. Ross, General Pur. Officer, Isthmian Canal Comn., Washington, D. C. Specifications and copies of bidding sheet are on file at New York office of Engineering News.

WHARF.—Gunantanamo, Cuba.—Bids were opened April 9, at the Bureau of Equipment, Navy Dept., Washington, for the construction of a wharf at the naval station, Guantanamo, Cuba. Bids were as follows: Fred S. & A. D. Gore Corporation, $250,000; William L. Miller, $153,000; Bernard Rolf, $162,000; Snare & Triest, $145,980; on bidder's specifications: $143,000; $141,000; $139,000.

BREAKWATER.—Kahului, Hawaii.—Contracts for the construction of a breakwater at Kahului, Maui, T. H., have been let to the HAWAIIAN DREDGING CO., by Alexander & Baldwin, of Maui. The breakwater will be 2,100 ft. in length, 250 ft. wide at the base, 100 ft. at the top and rise eight ft. above the water. The breakwater will make the harbor safe for all craft in the heaviest weather. The harbor is to be deepened to 32 ft.

HIGHWAY BRIDGE.—San Juan, P. R.—Bids are asked until 10 a. m., May 19, by the Bureau Public Works of the Department of the Interior, Porto Rico, for alternate sealed bids and plans for furnishing and erecting, or for furnishing only on a dock at San Juan, a steel-riveted pony truss highway bridge, 168 ft. 11½-in. span. Profile maps of the line, specifications and description of the work may be seen and obtained at the office of the Porto Rico Commercial Agency, 91 Wall St., New York. J. J. Jimenez, Supt. Public Works. (Advertised, Engineering News.)

INDUSTRIAL NOTES.

FELIX HAMBURGER has removed his office to 78 Fifth Ave., New York.

CRAMP & CO. have opened an office in the Lord's Court Bldg., 27 William St., New York.

W. K. MITCHELL & CO. inform us that they have moved to their new offices at 29th and Ellsworth Sts., Philadelphia.

THE BUCYRUS CO., South Milwaukee, Wis, reports that it is building 61 steam shovels, three wrecking cranes and one railway pile driver for work at Panama.

THE ABBOTT-GAMBLE & CO., New York, informs us that they have received the contract for constructing the power plant for the Lackawana Light Co., at Scranton, Pa.

S. F. HAYWARD & CO., 29 Warren St., New York, report that the exhibition of fire protection apparatus in their show rooms is most complete and invite all persons interested in that line to pay them a call.

W. H. GAHAGAN, 1 Montague St., Brooklyn, has received the contract for grade crossings on L. I. R. R., on Long Island, N. Y. The laborers for this work will be furnished by Julian Bros., 110 Mott St., N. Y.

THE DRAKE STANDARD MACHINE WORKS, of Chicago, announce that they have opened a branch office at 1 Madison Ave., New York, for the sale of concrete mixing machinery. T. D. Wood is in charge.

THE EDGE MOOR IRON CO., Edge Moor, Pa., has appointed Mackenzie, Quarrier & Ferguson, 114 Liberty St., New York, as the New York representatives, where inquiries for water tube boilers will receive attention.

THE HAYDEN AUTOMATIC & EQUIPMENT CO., 26 Cortlandt St., New York, informs us that the Hayden concrete block machine will be installed in the new factory of the Peerless Granite Co., of Weehawken, N. J.

THE ROCKAWAY CONCRETE & LUMBER CO., of Far Rockaway, L. I., N. Y., has placed an order with the Hayden Automatic & Equipment Co., 26 Cortlandt St., New York City, for a Hayden concrete block machine with which to equip its plant.

G. M. DAVIS & SON, Palotka, Fla., report that they have sold their cypress tanks throughout the United States, Canada, South America, Hawaii, Australia, Africa and Europe. They report an increasing demand for their tanks as an index of their merits.

THE BUFFALO FORGE CO., of Buffalo, N. Y., reported the sixth order received within a short time from its agents in Yokohama, Japan, this particular one being for a "Buffalo Automatic" engine to be used in direct-connection with a generator in an electric lighting plant.

THE WELER STEEL-CONCRETE CHIMNEY CO., informs us that H. P. Hill, formerly in charge of the St. Louis office of the Allis-Chalmers Co., has been appointed district sales manager, with offices in the Singer Bldg., New York. They state that the company's business for the month of March was the largest of any month in its history.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 138.

HEAD HOUSE, CHEMICAL HOUSE, ETC.

Sealed proposals will be received at the office of Board of Trustees, "Commissioners of Water-Works," of the City of Cincinnati, Ohio, until twelve o'clock noon of Tuesday, May 1, 1906 for the construction of a Head House, Chemical House, Filter House, Valve Houses and of a wash Water Reservoir and other miscellaneous work in connection therewith, for the Filter Plant and Settling Reservoirs, near the Village of California, in Hamilton County, Ohio.

Plans and detail drawings of the work and copies of the specifications, estimated quantities of the work to be done, form of proposal, forms of bonds and form of contract can be secured at the office of the Chief Engineer of the Board of Trustees, "Commissioners of Water-Works.

Each bid shall be accompanied with a bond, certified check, bank certificate of deposit or cash in the sum of $7,500 for the acceptance of the contract, if awarded by the Board of Trustees, "Commissioners of Water-Works."

Bidders must furnish satisfactory evidence of their ability to do the class of work required.

AUG. HERRMANN,
President.

ELMER G. PRIOR,
Clerk. 15-2t

U. S. ENGINEER OFFICE, Federal Building, Dallas, Tex., April 12, 1906.—Sealed proposals for building lock and dam No. 6 on Trinity River, Texas, will be received here until 12 M., May 28, 1906, and then publicly opened. Information furnished on application. W. P. WOOTEN, Capt., Engrs.
15-2t 20-2t

U. S. ENGINEER OFFICE, Boston, Mass., Mar. 16, 1906.—Sealed proposals for dredging in Merrimac River, Mass., will be received here until 12 M. April 16, 1906, and then publicly opened. Information on application. W. S. STANTON, Col., Engrs. 12-4t

BRIDGE WORK.

DEPARTMENT OF BRIDGES, NOS. 13-21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Bridges at the above office until 2 o'clock P. M. on

MONDAY, APRIL 30, 1906,

FOR FURNISHING THE METAL WORK FOR THE ANCHORAGES AND CONSTRUCTING THE TOWERS, CABLES, SUSPENDERS AND SUSPENDED SUPERSTRUCTURE OF THE MANHATTAN BRIDGE, OVER THE EAST RIVER, BETWEEN THE BOROUGHS OF MANHATTAN AND BROOKLYN.

The contractor will be required to begin work within ten (10) days after receipt of instructions from the Commissioner of Bridges to begin, and shall complete the entire work to the satisfaction of the Commissioner and the Engineer, and in accordance with the plans and specifications, as follows:

(1) Delivery at the bridge site of the metal work for the anchorages shall begin in the order in which the Engineer shall designate and shall be completed within six (6) months of the date of the execution of this contract.

(2) The construction of the towers shall begin as promptly as possible and the entire work under this contract shall be completed within three and one-half (3½) years from the date of the execution of this contract.

The amount of security to guarantee the faithful performance of the work under this contract will be One Million Five Hundred Thousand Dollars ($1,500,000).

No bid will be received or considered which is not accompanied by either a certified check upon a State or National Bank of The City of New York, or money to the amount of 5 per cent. of the amount of the bond required for the faithful performance of the contract. Said check or money must not be inclosed in the envelope containing the bid, but must be handed to the official of the Department who receives the bid, for examination and approval before receiving bid. All such deposits, except that of the successful bidder, will be returned by the Comptroller to the owners within three days after the contract is awarded.

The right is reserved by the Commissioner to reject all bids should he deem it to the interest of the City so to do.

Blank forms, plans and specifications may be obtained at the office of the Department of Bridges.

Dated April 9, 1906.

(Signed) J. W. STEVENSON,
15-3t Commissioner of Bridges.

PAVING.

Champaign, Ill.

Bids are asked until two o'clock P. M., April 24, by Board of Local Improvements for paving State Street, 11,670 square yards brick pavement, 8,100 lineal feet concrete curb and gutter. Plans and specifications can be had from G. C. FAIRCLO, City Engineer. 15-1t

WATER-WORKS EXTENSION.

Sealed proposals are invited until 12 M. of April 28, 1906, for the following work in connection with the proposed increase and extension of the water system of Asbury Park, N. J.: Pipe laying, Tower and Tank, Pumps and Boiler, Engine and Boiler House, in accordance with the plans and specifications on file or which may be procured upon application.

The right is reserved to reject any or all bids.

JOHN L. COFFIN,
Supt. Dept. of Water and Sewers,
Asbury Park, N. J.
ISAAC S. CASSIN, JR., C. E.,
2906 W. Girard Avenue,
Philadelphia, Pa. 15-2t

WATER-WORKS.

Sealed bids will be received by the Mayor and Council of Buena Vista, Ga., at the Council Chamber, until 2 p. m., April 30th, for furnishing two boilers, two pumps, feed pump and heater, 19 hydrants and 19 valves. Also for furnishing materials and constructing power-house and reservoir, and for laying about 2 miles of pipe furnished by the city.

Plans can be seen at the office of Arthur Pew, Engineer, Atlanta, Ga., and at the office of the City Clerk. For specifications address the undersigned.

T. B. RAINEY,
15-2t City Clerk.

CONSTRUCTING QUARTERMASTER'S OFFICE, Fort Ontario, N. Y., April 8, 1906.—Sealed proposals, in triplicate, will be received at this office until 10 o'clock, A. M., April 24th, 1906, and then opened, for construction of a Crematory Building; also for construction and erection of Garbage Crematory at Fort Ontario, N. Y., according to plans and specifications in this office. Information furnished on application. United States reserves right to reject any or all bids. Proposals should be marked "Proposals for Garbage Crematory," addressed to LIEUT. HENRY H. HALL, Constructing Quartermaster. 15-2t

WATER WORKS EQUIPMENT.

City Clerk's Office, East Orange, N. J.

Sealed proposals will be received by the City Council of East Orange, at their Council Room in the City Hall, on Main Street, on the 23d day of April, 1906, at eight o'clock P. M., for the following materials and labor at White Oak Ridge Pumping Station:

Laying 2,450 feet of 24-inch cast-iron pipe, 2,490 feet of 20-inch cast-iron pipe, and 300 feet of 12-inch cast-iron pipe.

Building an overflow chamber and manhole, and setting blow-off.

Connecting up driven wells and building substation building.

Proposals must be endorsed "Proposal for Laying Cast-Iron Pipe and Connecting Wells."

Specifications and plans may be seen at the office of C. C. Vermeule, Engineer in Charge, 203 Broadway, New York, or at the office of the Water Department, City Hall, East Orange, New Jersey.

Proposals must be addressed to Edgar Williams, City Clerk, and delivered to him not later than 8 o'clock P. M., on April 23d, 1906.

The City Council reserves the right to accept or reject any or all bids.

EDGAR WILLIAMS,
City Clerk.

Dated April 10th, 1906. 15-2t

ASPHALT PAVING, ETC.

Great Falls, Montana, April 3, 1906.

Sealed bids or proposals will be received at the office of the City Clerk until 8 o'clock P. M., Monday, April 30, 1906, for the repaving with asphalt of Central Avenue, from Park Drive to Sixth Street.

Instructions to bidders, together with specifications and form of contract, can be obtained upon application at the office of the City Engineer.

The right is reserved to reject any and all bids, or to accept any bid which would be to the best interest of the city.

By order of the City Council.

W. P. WREN,
City Clerk.

GEO. W. BIRD,
City Engineer. 15-2t

DRAINING.

Sealed proposals, suitably endorsed on envelope, for draining the lowlands lying in the Boroughs of Bergenfield and Dumont, Bergen County, N. J., will be received at the office of Walter Christie, Treasurer of the Dumont Drainage Commission, by the undersigned Commission at its meeting to be held at said office, April 28, 1906, at 4 o'clock, P. M. No bids will be received after the aforesaid time.

Plans, specifications and forms of bid may be seen at the office of Watson G. Clark, C. E., No. 1125 Broadway, N. Y. C., and Hillside Ave., Tenafly, N. J., or at the office of Walter Christie, Bergenfield, N. J., on and after April 13, 1906.

All bids to be opened and the contents publicly announced at the office of Walter Christie, Bergenfield, N. J., at above-mentioned time.

All bids must be accompanied by a certified check to the amount of ($50.00), payable to the order of the Dumont Drainage Commission.

A bond will be required from the successful bidder for the faithful performance of the contract.

The Commission reserve the right to reject any or all bids.

RICHARD D. VAN BUSKIRK.
WALTER CHRISTIE.
WATSON G. CLARK.
15-2t Commissioners.

SITUATIONS OPEN

WANTED—High-grade engineering salesman to manage a department for well-known machinery house in New York; fine opportunity and attractive salary for man of exceptional ability who can show results; must be thoroughly familiar with the territory and be in position to invest from $2,000 to $5,000; in writing give full details as to previous record and present salary and position. Address "B. B. 15," Engineering News, New York. 15-tf

TWO COMPETENT DRAFTSMEN for topographic work; $50 per month; six months' work guaranteed, with possibility of longer employment. Send sample of work. HUGH McRAE & COMPANY, Southern Building, Wilmington, N. C. 15-2t

WANTED—A leveler or transitman, capable of taking charge of surveying party, preferably a New Englander; must be a neat penman; state age, education, experience, and salary expected. Address "A. B. 15," Engineering News, New York. 15-1t

WANTED—A draftsman in Division Engineer's office on construction work on large railroad system in the Middle West; good chance for young man; state education and experience in detail, giving references and salary expected. Address "Z. B. 15," Engineering News, New York. 15-1t

FIELD ASSISTANTS WANTED; good opportunity for general experience. Address "X. B. 15," Engineering News, New York. 15-1t

WANTED AT ONCE, draftsman on railroad construction near city; salary to begin $75. Address "W. B. 15," Engineering News, New York. 15-1t

WANTED—Draftsmen and checkers for bridge and building work; state technical training, experience, salary expected, and when able to report; good salary and permanent position to the right men. RIVERSIDE BRIDGE CO., Wheeling, W. Va. 15-2t

WANTED AT ONCE—Structural draftsmen for detail work. The GEO. A. JUST CO., 432 Fifth Ave., New York. 15-2t

AT ONCE, young civil engineer, good draftsman; must have had experience in reinforced concrete design; state detailed experience and salary wanted; permanent position. Address "C. B. 15," Engineering News, New York. 15-1t

WANTED.—Assistant manager in building contractor's office, capable of purchasing all materials and attending to all details in connection with the construction of large industrial plants. Engineer preferred. State full experience. No application will be considered unless past experience and knowledge will command good salary. Address "D. B. 15," Engineering News, New York. 15-1t

WANTED.—Assistant manager in building contractor's office, capable of purchasing all materials and attending to all details in connection with the construction of large industrial plants; engineer preferred; state full experience. No application will be considered unless past experience and knowledge will command a good salary. Address "M. 15," Engineering News, New York. 15-1t

WANTED.—A general building superintendent or manager; prefer man who has had successful experience with prominent architect or construction company in city of size, and who can offer satisfactory references as to integrity; also ability for organization, besides experience in taking off quantities and systematic manner of keeping track of costs and estimates. None but a strong man knowing a building from bottom to top, and who can get the best out of men need apply. State salary. Address "A. A. 15," Engineering News, New York. 15-4t

WANTED.—Several good draftsmen on hydraulic power plant construction. Address "W. A. 15," Engineering News, New York. 15-1t

WANTED.—Three young technical graduates having some experience in office or outside work, for position with important railroad. Address "P. A. 15," Engineering News, New York. 15-2t

WANTED.—Foreman for structural shop employing 30 men; one who can handle men, take charge work, etc; state wages expected, age, references. Address R. J. SUTHERLAND, 4th and Central, Kansas City, Kansas. 15-1t

WANTED.—By building contractor, a superintendent capable of taking full charge of the construction of large industrial plants. State full experience. No application will be considered unless past experience and knowledge command a good salary. Address "L. 15," Engineering News, New York. 15-1t

DRAFTSMEN.—Wanted, detailers and checkers on structural work of all descriptions for buildings; state age, references and salary expected. LEVERING & GARRIGUES CO., 552 West 23d St., New York. 15-1t

WANTED.—First-class detailers on structural work for building; state age, references and salary expected. Adress "X. 14," Engineering News, New York. 15-1t

WANTED.—Draftsman for general work; state experience and salary expected. Address HELENA POWER TRANSMISSION COMPANY, Butte, Montana. 15-1t

WANTED.—Chief draftsman; structural steel; consulting engineer's office, New York; references. Address "R. 15," Engineering News, New York. 15-2t

WANTED.—Young, active, experienced foreman on granolithic sidewalks; steady employment. SOUTHERN CONTRACTING COMPANY, Norfolk, Va. 15-1t

WANTED.—Architectural draftsman; one with some knowledge of engineering preferred, but must be experienced as an architectural draftsman. Address "P. 15," Engineering News, New York. 15-3t

WANTED—Two or three first-class bridge draftsmen; must have good experience in railroad bridges. CENTRAL STATES BRIDGE COMPANY, Indianapolis, Ind. 15-2t

WANTED.—Engineers for reinforced concrete work; men of structural experience and technical training preferred; excellent opportunity. TRUSSED CONCRETE STEEL CO., Detroit, Mich. 15-1t

WANTED—Architecural draftsman, experienced, rapid and accurate; permanent position to right man. Apply by mail only, sending samples of work if practicable. Address UNIT CONCRETE STEEL FRAME CO., 1413 Commonwealth Bldg., Philadelphia, Pa. 15-tf

WANTED.—General foreman for large shop making special machines; only high-class, practical, experienced man of executive ability, who is holding similar position will be considered; requires man fully capable of handling 300 to 400 men; state if experienced in foundry work; excellent opportunity. All communications will be held strictly confidential. Address "S. 15," Engineering News, New York. 15-tf

WANTED.—Civil engineers familiar with trigometrical and logarithmic computations; those familiar with railway special track work preferred; permanent position; state age, experience and salary expected. Address all communications to WM. WHARTON, JR. & CO., INC., Station D, Philadelphia, Pa. 15-1t

WANTED.—Contractor to strip cover off coal bed in Indian Territory. About 300,000 yards of earth to be moved. Good prices will be paid. Address KALI-INLA COAL COMPANY, Fort Smith, Arkansas. 15-2t

WANTED.—An experienced office engineer. One familiar with hydraulic and sanitary works, with purification. Employment New York City. Address, stating record, references and salary required, "F. A. 15," Engineering News, New York. 15-1t

Miscellaneous Wants

WANTED.—By building contractor, a superintendent capable of taking full charge of construction of large industrial plants. State full experience. No application will be considered unless past experience and knowledge will command a good salary. Address "E. B. 15," Engineering News, New York. 15-1t

FOR SALE

WELL MACHINE

300 ft. American Well Works, Fig. 159, Gasoline Engine Jetting Rig, complete with 2" and 3" earth and rock tools, used four days and in first-class condition. Cost $576; make me an offer. Suitable for drilling blast holes. Address "D. 14," Engineering News, New York. 14-2t

THE

Brookville Bridge Co.

Brookville, Ohio 13-4t

Steel Highway Bridges and Buildings

WANTED

AGENCY FOR GERMANY

A young civil engineer, German, 33 years old, returning to Germany, and establishing an agency, wishes to represent American firms and manufacturers. Will use good connections in Germany. Address "E. A. 14," Engineering News, New York. 14-2t

CONTRACTOR'S EQUIPMENT

FOR SALE

Hoisting engines, boilers, pumps, feed water heaters, steam shovels, cars, etc. Prompt delivery.

O. R. WHITNEY, 39-41 Cortlandt St., N. Y. City
Telephone, 6095 Cortlandt. 14-4t

Laborers for Construction

CRISORIO & NICHOLS,
23 Fulton Street Albany, N. Y.

First-class Italian laborers supplied for all kinds of work. Also camps furnished. 14-4t

FOR SALE

CONTRACTORS' LOCOMOTIVES

Several Vulcan, Porter and Dickson 9 x 14, 36" gage Contractors Saddle Tanks, 2 and 3 years old; have been entirely rebuilt and ready for immediate shipment.

CHARLES F. AVERY, 45 Broadway, N.Y.
14-2t

Two Competent Draftsmen Wanted

for topographic work. $50.00 per month. Six months work guaranteed with possibility of longer employment. Send sample of work.

HUGH MAC RAE & COMPANY,
14-2t Southern Building, Wilmington, N. C.

FOR SALE

A 10-TON

Buffalo Pitts Road Roller

in first-class condition. Inspection, New York. Address, "F. A. 14," Engineering News, New York. 14-2t

Several Revolving **DERRICKS** or "Whirlies." Capacity about 4 tons. Booms 45 to 50 ft. long. **ENGINES:** Double, 9 x 10. **BOILERS:** Upright, 88 x 42 inches. All in good condition. Close price for prompt sale. Address,

THE MALES CO.
34 & 36 Wall Street 713 Traction Building
New York, N. Y. Cincinnati, O.
SEND FOR OUR LATEST CIRCULARS. 13-4t

Please mention ENGINEERING NEWS.

FOR SALE OR RENT

One Little Giant Vulcan steam shovel, 1¼ yard dipper.

Two 16 x 24 American type locomotives.

20 42-in. gage 3½ yard capacity, Allison O'Connor patent dump cars.

One Sweet & Co. straight line engine, 11 x 15.

One Worthington steam pump, 2 x 18½ x 10¼ x 10, 8-in. suc., 7-in. dis.

Also carts, harness, scrapers, jacks, boilers, etc.

Yards and Shops: Bloomfield, N. J.

Harper Machinery Company

Park Row Bldg., New York
Yards and Shops, Bloomfield, N. J.

CONTRACTOR'S PLANT FOR SALE—Location, Hyattsville, Md.

LIDGERWOOD CABLEWAY.

2 LIDGERWOOD CABLEWAYS, 700 ft. span, with 60-ft. traveling towers.
2 80-HP. BOILERS.
1 EXTRA REEL, 1¾-in. CABLE, 900 ft. long.

MISCELLANEOUS REPAIR PARTS.

RIDGEWAY CONVEYOR.

1 Ridgeway Conveyor 20-in. rubber belt, 1,600 ft. long, complete system. Extra repair parts.

ROAD MACHINERY.

1 "New Era" 12 Horse Grader.
1 Road Machine, No 18012.
1 10-ton Universal Steam Roller, Julian Scholl.
1 10-ton Buffalo Pitts Steam Roller, Shop No. 6589.
1 10-ton Buffalo Pitts Steam Roller, Shop No. 6603.
10 Austin Dump Wagons.
6 Watson Dump Wagons.
9 Steel Hopper Dump Carts.
2 Austin Sprinkler Wagons.
1 Extra heavy Dray Wagon.
1 22-HP. Geiser Traction Engine. Extra repair parts.

LOCOMOTIVE CRANE.

1 Bay City Locomotive Crane, standard gage, with 30-ft. boom, 15 tons capacity, Shop No. 1296, and
1 2-yd. orange peel Bucket, No. 1237. Extra repair parts.

CRUSHER PLANT.

1 No. 3 Austin Stone Crusher complete.
1 30-ft. Conveyor.
1 13 x 16 Cylinder Engine, Chandler & Taylor make.
1 500-gallon Water Tank, iron.
1 40-HP. Boiler.

HYDRAULIC JACKS.

1 30-ton Hydraulic Jack.
2 50-ton Hydraulic Jacks.
16 Screw Jacks.
12 Railroad Jacks.
50 tons 40-lb. Rail. Extra repair parts.

STEAM SHOVEL.

1 Marion "G" 2½ Dipper, Shop No. 513. Extra repair parts.

CONCRETE PLANT.

1 No. 5 Smith Mixer with hood and engine complete.
1 50-HP. Boiler.
8 2½-yd. Buckets, taper sides, extra bottom, Union Iron Works.
5 36 cu. ft. Side Dumping Buckets, Union Iron Works.
5 21 cu. ft. Side Dumping Buckets, Union Iron Works.
4 1-yd. Bottom Dump Buckets, square sides.
10 1-yd. Bottom Dump Haines Buckets.
16 Atlas Flat Cars, 7 ft. long, 36 gage.
14 Atlas Flat Cars, 12 ft. long, 36 gage. 40 and 60-lb Rails.
1 3,650-gallon Cypress Tank.

LOCOMOTIVES.

5 Manhattan Forney Type Engines, 18 x 22 tons, standard gage, good condition.
3 Vulcan Locomotives, 12 tons, 9 x 14 cylinder, 36-in. gage.
60 4-yd. standard gage, side dump cars, Ryan & McDonald make. 8,000 Track feet 40 and 60-lb. rail. Extra repair parts.

THE SAND FILTRATION CORPORATION OF AMERICA, 26 Broadway, N. Y. 14-3t

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